

Laceys.tv

QUALITY ELECTRONICS FOR THE RECEPTION OF TELEVISION

CATALOGUE 108

- ANTENNAS & MOUNTING HARDWARE
- AMPLIFIERS & MODULATORS
- A/V LEADS, CABLE, CONNECTORS, HAND TOOLS & OUTLET PLATES
- DATA PRODUCTS
- DIPLEXERS, FILTERS & PASSIVES
- INSTRUMENTS
- MOUNTING BRACKETS & CABINETS
- COMMERCIAL MATV, SMATV & CATV
- CCTV
- SATELLITE EQUIPMENT
- RECEIVERS

32 YEARS OF EXPERTISE & LEADING BRANDS

Australian owned and operating for more than 32 years, Lacey's.tv continues its dedication to sourcing technologically advanced products and is the sole importer of some of the world's most important and recognised television reception brands.



FRACARRO

- Television Antennas
- Antenna Mast Amplifiers
- Splitters / Taps / Couplers
- Digital TV Modulators

FRACARRO is the market leader in designing and producing products for excellence in TV Reception.

Italian design, engineering and manufacturing, Fracarro have the experience and technological expertise in manufacturing acquired over 77 years in business.

Fracarro is Europe's largest Antenna manufacturer with a significant share of the Australian TV Antenna market, long the choice of installers working in the most difficult reception areas.

Fracarro also manufacture a broad range of quality MATV products and these have been employed successfully in headends across Australia for almost 20 years.



- Security Cameras
- Network Video Recorders
- Digital & Analogue HD Video Recorders
- Cabling
- Mobile application & support

SECURITY INDUSTRIES represents a wide range of CCTV products including the latest IP and security cameras, network and digital video recorders.

LABGEAR

- TV Signal Meters
- Taps

LABGEAR brand is synonymous with quality terrestrial TV and satellite TV signal meters for domestic and commercial MATV applications.



- TV Mounting Hardware
- TV Flyleads
- TV Coaxial Cable
- Splitters for TV & Satellite
- Connectors & Adaptors
- HDMI Leads & Accessories

AERIAL INDUSTRIES brand represents a diverse range of products covering TV reception accessories, cabling and AV accessories.

OGG LABS

- Digital TV Modulators

OGG LABS brand was founded with a vision to achieve technologically advanced product solutions for common problems associated with television reception.

OGG LABS is committed to delivering solutions for digital content, specialising in DVB-T and HDMI products for TV.



- Digital TV Modulators
- TV Brackets
- HD Television Set Top Boxes
- Audio Video Senders

healing is one of Australia's original and iconic consumer electronic products brands. Extensive testing and development work invested in healing products performed at our engineering division has assured an outcome of outstanding performance and high reliability.

CCTV

Network & Digital Video Recorders

NVRs.....	130–131
AHD Hybrid Turbo DVRs.....	132
DVRs.....	133–134

CCTV Cameras

Analogue Cameras.....	135
AHD Cameras.....	136–137
IP Cameras.....	137–138

CCTV Accessories

Power Supplies.....	138
Connectors, Adaptors & Cable.....	139
CAT5e / CAT6 Baluns.....	139
Hard Drives.....	139
BNC Adaptors / Connectors.....	139

CCTV Tester	140
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Understanding CCTV Focal Length & Field of View

.....	140
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NETWORK & DIGITAL VIDEO RECORDERS

NETWORK VIDEO RECORDERS

4 CHANNEL NVR WITH 4 PORT POE

SI10404



Security Industries IP Network Video Recorders are easy to use with advanced features. Available in models with 4 to 32 input channels, these compact and powerful security solutions include Power over Ethernet which provides 48V to each camera port, or in the case of our 32 input NVR, 16 input ports.

Control is simple thanks to an intuitive icon based menu, common to all SI recorders. Off site access is easy from smartphone or tablet, with easy to use Android and iOS Apps. Push Reporting allows the user to see what has created an alarm, instantly. HEM graphic mapping software permits control of several SI recorders from a Windows or MAC PC. True Hexaplex — a recorder can simultaneously Record, Live View, Playback, Backup, Control, and be Accessed Remotely. Alarm In and Out can create a complete security solution, by the addition of external detectors and switches.

Digital compression technologies provide superb picture quality. Features include up to 8MP real time recording, sophisticated motion detection, HDMI, VGA & BNC monitor outputs, bi-directional audio and multistreaming internet connection. SI NVRs enjoy full compatibility with ONVIF Profile S cameras.

8 CHANNEL NVR WITH 8 PORT POE

SI10808



		SI10404	SI10808
Video	Format	IP Cameras ONVIF Profile S	
	Input	Up to 4 CH 1080p	Up to 8 CH 1080p
	Main Monitor	HDMI with resolution 1920 x 1080, VGA with resolution 1920 x 1080	
Audio	In & Out	Input: 1 x RCA line in, level <1Vrms and ONVIF_S streams; Output: HDMI, 1 x RCA line-out, level <1Vrms & USB	
RECORDING			
Compression	CODEC	Video: H.264, Audio: ADPCM	
Max Frame Rate		120fps@1080p, 120fps@720p, 100fps@720p, up to 56Mbps incoming bandwidth, including live display.	
Modes		Manual, Schedule, Alarm and Motion	
STORAGE			
Hard Disk Drive	Internal	3.5" SATA drive bay x 1, up to 6TB; with failure detection & privacy	
Back Up		1 x USB 2.0 port for USB Storage and playback devices; back up also to FTP or HEM	
DISPLAY			
Resolution		HDMI & VGA 1920 x 1080 pixels (Full HD)	
Split Windows		1 or 4	1, 4, 7 or 9
PLAYBACK			
Max Frame Rate		80fps@1080p, 120fps@720p	
Search	by	Date, Time, Motion, Video Loss, Camera, Smart Search or Alarm	
ALARM			
Inputs		4 contact or TTL or CMOS signals, polarity selectable & IP Camera alarm inputs	
Output		1 Normally Open or Normally Closed relay output & IP Camera alarm outputs	
Motion Detection		Detection areas and sensitivity adjustable for each camera channel	
NETWORK			
PoE		4 ports, 48V DC max 16Watts ea	8 ports, 48V DC max 16Watts ea
Connection		RJ45, 10/100M Ethernet Connector	
PTZ Control		Pelco D, Pelco P, Bosch Auto Dome, Samsung SCC-641P, Kalatel Cyber Dome, and other protocols	
Video		1, 4, 9, 16, 25, 36, 49 or 64 split-windows & SEQ mode for LE and HEM; electronic mapper.	
USER INTERFACE			
Protection		Multi-level Password (4) and multi-user (18)	
System Recovery		Auto power on after power loss recovery; Watch Dog Timer	
Setup	Local	Front panel keypad, USB mouse, optional infra red remote control and control keyboard	
Users	simultaneously	8 x users max., at the same time	
Remote Access	PC, Windows or MAC	Windows 10, 8, 7, Vista, XP or 2003. Browsers: IE, Firefox or Chrome HEM: manage up to 10 DVRs with interactive graphical site mapping	
	Portable Devices	Apps, N-streaming Live View in groups of up to 16. Search by Time, Events, Alarms, Log files or Snapshots	
Control / POS / GPS	RS-485	2 - pin for keyboard, POS and/or PTZ control	
GENERAL			
Dimensions		85(W) x 195(D) x 44(H) mm	320(W) x 210(D) x 50(H) mm
Power	Voltage	12VDC NVR; 48VDC PoE	
	Consumption	36W max NVR; 16W per port max PoE	60W max NVR; 16W per port PoE
Operating	Temperature	0°C to +45°C	

16 CHANNEL NVR WITH 16 PORT POE SI21616



32 CHANNEL NVR WITH 16 PORT POE SI63216



4, 8, 16, 32 input channels Network Video Recorders features:

- Power over Ethernet runs cameras from NVR over a single Cat5e or CAT6 cable.
- Full HD recording with up to 4k resolution for 16 and 32 input NVRs. Multi-brand IP-Cameras ONVIF Profile S or RTSP.
- Internal Hard Disk Drive bay(s) for storage up to 6TB per HDD (HDD is not included, plus eSata HDD or NAS extensions for an additional Hard Disk Drive for 16 and 32 input NVRs).
- Realtime live display, up to 30/25fps for each channel.
- Digital watermarking.
- USB Optical Mouse included.
- Case width perfect for 19" Rack Mount (excluding SI10404).
- Two-way audio function permits listening and talkback.
- Motion detection areas and sensitivity user programmable.
- Alarm processor with configurable triggering conditions and reactions.
- Push Alarm notifications to Android & IOS mobile phones & devices.
- Remote access through web browser or proprietary HEM software.
- Snapshot video playback.
- Free DDNS server.
- Smartphones and tablet apps available without charge.

		SI21616	SI63216
Video	Format	IP Cameras ONVIF Profile S	
	Inputs	16 camera channels, each 8MP / 4K	32 camera channels, each 8MP / 4K
	Main Monitor	HDMI, with resolution up to 3840 x 2160 (4K), VGA, with resolution up to 2560 x 1600, BNC, 1Vp-p 75Ω, with Call function	
Audio	Input: 1 x RCA line in, level <1Vrms and ONVIF_S streams; Output: HDMI, 1 x RCA line-out, level <1Vrms & USB		
RECORDING			
Compression	CODEC	IP Camera: H.265 or H.264, Audio: ADPCM	
Max Frame Rate		256Mbps / 8MP / 4K, up to 320Mbps incoming bandwidth, including live display	
Mode		Manual, Schedule, Alarm & Motion	
STORAGE			
Hard Disk Drives	Internal	3.5" SATA drive bays x 2, up to 6TB each max; with failure detection & privacy	3.5" SATA drive bays x 6, up to 6TB each max; with failure detection & privacy
Back Up	External	1 x USB 3.0 & 2 x USB 2.0 ports for storage and playback; back up also to FTP & HEM, 2 x eSATA	
DISPLAY			
Resolution		HDMI: 3840 x 2160 (4K), VGA: 2560 x 1600, CVBS	
Split Windows		1, 4, 7, 9, 10, 13 or 16	1, 4, 9, 16, 25 or 36
Frame Rate		Up to 25 or 30 fps per display window (Digital zoom 2 x or 4 x)	
PLAYBACK			
Max Frame Rate		128Mbps / 8MP 4K	
Search	by	Date, Time, Motion, Video Loss, Camera, Smart Search or Alarm	
ALARM			
Inputs		16 x contacts, TTL or CMOS signals, polarity selectable & IP Camera alarm inputs	
Outputs		4 (2 Normally Open, 2 normally Closed) relay output; & IP Camera alarm outputs	
NETWORK			
PoE		16 ports, 48V DC max 16 Watts ea	
Connection		16 x RJ45 Ethernet 10M/100M/1G PoE IP Camera ports (cameras 16 to 32 via Ethernet port)	
PTZ Control		Pelco D, Pelco P, Bosch Auto Dome, Samsung SCC-641P, Kalatel Cyber Dome and other protocols	
Video		1, 4, 9, 16, 25, 36, 49 or 64 split-window & SEQ mode for IE and HEM electronic mapping	
USER INTERFACE			
Protection		Password levels x 4 and up to 18 user logins	
System Recovery		Auto recovery after power loss; Watch Dog Timer	
Setup	Local	Front panel keypad, USB mouse, optional infra red remote control and control keyboard	
Users	simultaneously	8 x users max., at the same time	
Remote Access	PC, Windows or MAC	Windows 10, 8, 7, Vista, XP or 2003. Browsers: IE, Firefox or Chrome HEM: manage up to 10 DVRs with interactive graphical site mapping	
	Portable Devices	Apps, N-streaming Live View in groups of up to 16. Search by Time, Events, Alarms, Log files or Snapshots	
Control / POS / GPS	RS-485	2-pin for keyboard, POS and/or PTZ control	
	RS-232	1 x DB9 male connector for PTZ, keyboard, POS, or GPS	
GENERAL			
Dimensions		430(W) x 280(D) x 55(H) mm	430(W) x 350(D) x 66(H) mm
Power	Voltage	12VDC NVR; 48VDC PoE	
	Consumption	60W max NVR; 16W max per port PoE	100W max NVR; 16W max per port PoE
Operating	Temperature	0°C to +45°C	

AHD 1080P, IP OR ANALOGUE HYBRID TURBO DVRs



SI104T / SI108T / SI216T



Security Industries Tribrid AHD Digital Video Recorders accept a mix of camera technologies, that permit a staged move to the better picture quality of digital CCTV. Existing Analogue cameras are equally comfortable with SI AHD, and IP camera hardware — on the one recorder. Available in 4, 8 and 16 input models, SI Tribrid AHD recorders are serious security solutions that take the user to the next level.

Control is simple thanks to an intuitive icon based menu, common to all SI recorders. Off site access is easy from smartphone or tablet, with simple to use Android and iOS Apps. Push Reporting allows the user to see what has created an alarm, instantly. HEM graphic mapping software permits control of several SI recorders from a Windows or MAC PC. True Hexaplex — a recorder can simultaneously Record, Live View, Playback, Backup, Control, and be Accessed Remotely. Alarm In and Alarm Out can create a complete security solution, by the addition of external detectors and switches.

Outstanding picture quality is provided with efficient H264 video compression. Features include sophisticated motion detection, HDMI and VGA monitor connections and several audio inputs. Up the Coax PTZ and similar zoom camera control is ready to go.

Router ports can be configured automatically with UPnP. Connect to the internet directly from the recorder menu even in dynamic IP address environments with FLY2DNS.

		SI104T	SI108T	SI216T
Video	Format	AHD, Analogue (PAL, NTSC, CCIR & EIA), IP ONVIF Profile S		
	Input	AHD 5MP or Analo BNC, 1Vp-p 75Ω IP Cameras 1080p or 720p	AHD or Analogue BNC, 1Vp-p 75Ω IP Cameras 1080p or 720p	AHD 5MP or Analo BNC, 1Vp-p 75Ω IP Cameras 1080p or 720p
	Main Monitor	HDMI & VGA to 1920 x 1080 resolution; BNC 1Vp-p @75Ω		HDMI 3840 x 2160, VGA 1920 x 1080, BNC 1Vp-p/75Ω
Audio	Inputs	RCA line in, level < 1Vrms	RCA line in x 1, level < 1Vrms	RCA x 8 adapter, level < 1Vrms
	Outputs	HDMI, RCA line-out x 1 level < 1Vrms & USB		
RECORDING				
Compression	CODEC	Video, Audio (ADPCM) & IP Camera: H.264 Main Profile		
Max Frame Rate & Resolution		AHD: 60fps@1080p, 120fps@1080p-lite or 720p, Analogue 960H, IPCam 100fps@1080p or 200fps@720p	AHD: 120fps@1080p, 240fps@1080p-lite or 720p & Analogue 960H, IPCam 100fps@1080p or 200fps@720p.	AHD: 240fps@1080p, 480fps@1080p-lite or 720p & Analogue 960H, IPCam 200fps@1080p or 400@720p
STORAGE				
Hard Disk Drive	Internal	1 x 3.5" SATA bay up to 6TB, with failure detection & privacy	1 x 3.5" SATA bay up to 6TB, with failure detection & privacy	2 x 3.5" SATA bays up to 6TB, with failure detection & privacy
Back Up		USB2.0 playback ports x 2, FTP or HEM back up		
DISPLAY				
Resolution		HDMI & VGA up to 1920 x 1080; PAL 720 x 576; Digital Zoom x2 or x4		HDMI up to 3840 x 2160; VGA up to 2560 x 1600; CVBS; Digital Zoom x2 or x4
Split Windows		1 or 4	1, 4, 7 or 9	1, 4, 7, 9, 10, 13 or 16
PLAYBACK				
Max Frame Rate		Up to 25 or 30 fps per display window		
Search by		Date, Time, Motion, Video Loss, Camera, Smart Search or Alarm		
ALARM				
Inputs		4 x contacts, TTL or CMOS polselect	8 x contacts, TTL or CMOS, polarity selectable	
Output		1 x Normally Open or Normally Closed relay output		
NETWORK				
Connection		1 x RJ45, 10/100M Ethernet Connector		
PTZ Control		Pelco D, Pelco P, Bosch Auto Dome, Samsung SCC-641P, Kalatel Cyber Dome, and other protocols		
Video		1, 4, 7 or 9 frame split-windows & SEQ mode for I.E., HEM dynamic mapping; N-Streaming live view		
USER INTERFACE				
Protection		Up to 4 Password levels and up to 18 different User Logins		
System Recovery		Automatic power loss recovery; Watch Dog Timer		
Setup	Local	Front panel keypad, USB mouse, optional infra red remote control		
Users	simultaneously	8 x users max., at the same time		
Remote Access	PC, Windows or MAC	Windows 10, 8, 7, Vista, XP or 2003. Browsers: I.E, Firefox or Chrome HEM: manage up to 10 DVRs with interactive graphical site mapping		
	Portable Devices	Apps, N-streaming Live View in groups of up to 16. Search by Time, Events, Alarms, Log files or Snapshots		
Control, POS, GPS	RS-485	2 pin keyboard, PTZ and or POS control		
	RS-232	1 x DB9 male connector for PTZ, keyboard, POS, or GPS		
GENERAL				
Dimensions		85(W) x 195(D) x 44(H) mm	320(W) x 210(D) x 50(H) mm	435(W) x 280(D) x 55(H) mm
Power		12VDC 3A	12VDC 3A	12VDC 5A
	Consumption	36W max	36W max	60W max
Operating	Temperature	0°C to +45°C		

FRACARRO

DVR VENEZIA4 / 16 960H

DVRS



- Universal Plug-n-Play Port Forwarding on compatible modem / routers makes Port Forwarding simple.
- Quick Mobile Surveillance connection on all Smartphones via dedicated app.
- Real Esaplex features: Recording, Live View, Playback, Full Control, Backup and Networking @ 960H.
- Full high-speed PTZ control.
- Innovative Recording Modes include Smart Search, pre and post alarm recording, advanced multi-area motion detection.
- In the case of Event Triggering, Fracarro DVRs can automatically upload an alarm recording to a secure FTP server or send a notification by e-mail.
- Included interactive graphical mapping software (HEM) allows remote management of up to 10 DVRs.
- Custom privacy masks with recording selectable by time — gives the user power what is seen and when it is recorded.
- Back up AVI files to USB and network storage devices.
- Complete network support (TCP/IP, PPPoE, DHCP, DDNS, SMTP, FTP).

		DVR VENEZIA4 960H	DVR VENEZIA16 960H
Video	Input	4 BNC	16 BNC
	Output	HDMI, VGA, BNC Main	
	Standard	NTSC/PAL manual selection	
	Signal	1.0Vp-p, 75Ω unbalanced, BNC type	
Audio	Input	2	8
	Output	2	1
RECORDING			
Frame Rate		100fps @ CIF (360×240), 100fps @ Half-D1 (720×240), 100fps @ Full-D1 (720×480), 100fps @ 960H (976×528)	400fps @ CIF (360×240), 400fps @ Half-D1 (720×240), 300fps @ Full-D1 (720×480), 200fps @ 960H (976×528)
Mode		Manual / Scheduling / Motion / Alarm / Pre and Post alarm	
Scheduling		Time and frame rate adjustable for each camera	
Compression		Video: H.264, Audio: ADPCM	
Search		Date / Time / Motion / Video Loss / Camera / Smart Search	
Hard Disk	Internal	1x Internal 3.5" SATA, up to 4TB (not included)	
	External	1 disk up to 4TB max	
DISPLAY			
Resolution		720×480 pixels (NTSC), 720×576 pixels (PAL), 1920 x 1080 pixels (HDMI, Full HD)	
Mode		Full Screen / Quad / Sequential	
Motion Detection		Detection areas and sensitivity adjustable for each camera	
NETWORK			
Connection		RJ45, Ethernet 10/100 baseT Mbit	
Functions		Remote control, Live view with PTZ facility, Backup, firmware upgrade	
Event Communication		Mail notification, ftp recording	
Users		Max 6 users simultaneously	
USER INTERFACE			
Protection		Multi-level Password (4) and multi-user (18)	
Local		Frontal keyboard, USB mouse, remote control, optional control keyboard with 3-axis joystick (up to 256 DVR)	
Remote	PC Windows / MAC	Full DVR management (unlimited number of DVRs) CMS: Full management (up to 10 DVRs) with interactive graphical maps	
	Smartphones (Android & Apple)	Live (Quad/Full screen) with adjustable resolution, input alarms, Search by Time / Events, Snapshot, Log file, Easy management of unlimited DVRS with the "Fracarro iDVR" app, available free of charge on "Apple Store" and "Play Store"	
EVENT MANAGEMENT			
Detected Events	Type	Motion detection, video loss, input alarms, full disk, hard disk faulty	
Alarms	Input	4 (TTL/CMOS selectable polarity)	8 (TTL/CMOS selectable polarity)
	Output	1 (Normally Opened or Normally Closed)	2, (1 Normally Opened, 1 Normally Closed)
Buzzer		Programmable for each event	
CONNECTIONS			
Serial Communication		RS485 (D+, D-)	
PTZ control		Pelco D, Pelco P, Samsung SCC-641P, Kalatel Cyber Dome, Bosch Auto Dome and other protocol	
Backup		USB 2.0 (Pendrive, external hard disk, External DVD, SD-MMC Card), online storage device / CMS	
GENERALS			
Power Supply	ON/OFF Switch	100-240V, 50/60Hz (12V DC/3A external adaptor included)	
Power		30W max	36W max

FRACARRO

DVRMILANO16



- Real Esaplex features: Recording, Live View, Playback, Full Control, Backup and Networking.
- Smartphone Surveillance via dedicated app allowing full access to hard drive recordings and alarm events remotely.
- eSATA connection for external hard disks (9 and 16 channel).
- Full high-speed PTZ control.
- Outstanding adjustable resolution H.264 / MPEG4 recording.
- Innovative Recording Modes include Smart Search, pre and post alarm recording, advanced multi-area motion detection, Scheduling.
- In the case of Event Triggering, eg motion, alarm, video loss, full disk, it can automatically upload an alarm recording to a secure FTP server or send a notification by e-mail.
- Included interactive graphical mapping software (HEM) allows remote management of up to 10 DVRs.
- Custom privacy masks with recording selectable by time — gives the user power over what is seen and when it is recorded.
- Includes Watermarking to prevent video file modification.
- Back up AVI files to USB and network storage devices.
- 10/100Mb LAN port network support (TCP/IP, PPPoE, DHCP, DDNS, SMTP, FTP).
- Remote control unit and USB optical mouse included.

DVRMILANO16		
RECORDING		
Video	Input	16 BNC
	Output	HDMI, VGA / S-Video / 2 BNC (monitor and spot)
	Standard	NTSC / PAL manual selection
	Signal	1.0Vp-p, 75Ω unbalanced, BNC type
Audio	Input	4
	Output	2
Frame Rate		200fps (360×288), 150fps (720×288), 50fps (720×576) (adj. for each camera)
Scheduling		Time and frame rate adj. for each camera
Compression		Video: H.264, Audio: ADPCM
Search		Date / Time / Motion / Video Loss / Camera / Smart Search
Hard Disk		Internal: SATA, internal assembly, External: eSATA 3 disks up to 2TB each (6TB max)
NETWORK		
Connection		RJ45, Ethernet 10/100 baseT Mbit
Users		Max 8 users simultaneously
Event Comm.		Mail notification, ftp recording
EVENT MANAGEMENT		
Detected Events	Type	Motion detection, video loss, input alarms, full disk, hard disk faulty
Alarms	Input	16 (TTL/CMOS selectable polarity)
	Output	1 (NO or NC)
Buzzer		Programmable for each event
Log File		Last 3000 event
CONNECTIONS		
Serial Comm.		RS485 (D+, D-), RS-232
PTZ control		Pelco D, Pelco P, Samsung SCC-641P, Kalatel Cyber Dome, Bosch AutoDome and other protocols...
GENERALS		
Power supply	ON/OFF Switch	100–240V, 50/60Hz (12V DC/8A external adaptor included)
Power		70W max

FRACARRO

DVRSDI2-8



- Real Time Recording, Real time Live View, Network in Full HD (1920 x 1080).
- Quick Mobile Surveillance connection on all Smartphones via dedicated app allowing full access to hard drive recordings and alarm events remotely.
- Full, Real Time high-speed PTZ control.
- Innovative Recording Modes include Smart Search, pre and post alarm recording, advanced multi-area motion detection.
- In the case of Event Triggering, it can automatically upload an alarm recording to a secure FTP server or send a notification by e-mail.
- Included interactive graphical mapping software (HEM) allows remote management of up to 10 DVRs.
- Custom privacy masks with recording selectable by time — gives the user power over what is seen and when it is recorded.
- Includes Watermarking to prevent video file modification.
- Back up AVI files to USB and network storage devices.
- Complete network support (TCP/IP, PPPoE, DHCP, DDNS, SMTP, FTP).

DVRSDI2-8		
Video Inputs	Analogue	8 PAL / NTSC (BNC – 75Ω unbalanced)
	Digital	2 SDI (BNC – 75Ω unbalanced)†
Audio Inputs	Analogue	10 RCA (line-in level 100mV–2Vrms)
	Digital	2 SDI (same as video inputs)
Outputs	Video	HDMI and VGA with resolution up to Full HD, 2 BNC (spot monitor) PAL / NTSC
	Audio	2 RCA, line-out level (up to 2Vrms)
RECORDING		
Frame Rate (adjustable for each camera)	Analogue	FULL REAL TIME PAL: 200fps@Full D1 (720×576) or Half D1 (720×288) or CIF (360×288)
	Digital	FULL REAL TIME 50fps@Full HD (1920×1080)
Mode		Manual / Scheduling / Motion Alarm / Pre alarm (0–60 sec, Post Alarm (0–60 min)
Search		Date / time / motion / video loss / Camera / Smart Search
Hard Disk	Internal	Internal SATA, up to 5 disks
DISPLAY		
Resolution	VGA, HDMI	VGA, HDMI: Full HD (1920×1080); BNC: 720×576 pixels (PAL), 720×480 pixels (NTSC)
NETWORK		
Connection		RJ45, Ethernet 10/100 baseT Mbit
Event Communication		Mail notification, ftp recording
Users		Max 8 users simultaneously
EVENT MANAGEMENT		
Detected Events	Type	Motion detection, video loss, input alarms, full disk, hard disk faulty
Alarms	Input	16 (TTL / CMOS selectable polarity)
	Output	4 (2 normally opened, 2 normally closed)
CONNECTIONS		
Serial Comm.		RS485 (D+, D-), RS-232
PTZ Control		Pelco D, Pelco P, Samsung SCC-641P, Kalatel Cyber Dome, Bosch AutoDome and other protocols...
GENERALS		
Power Supply	ON/OFF Switch	100–240V, 50/60Hz (12V DC/8A external adaptor included)
Power		100W max with 5 hard disks

CCTV CAMERAS

ANALOGUE CAMERAS

FRACARRO

CIR700-36



Video Sensor	Sony Super HAD 1/3" Colour CCD
Focal Length	3.6mm
Resolution	700TVL
Min. Available Light	0.3 lux @ f2.0 (0 lux with IR LED on)
IR Illuminator	24 IR LED
IR Range	(Up to) Internal 15m, External 10m
IP Rating	IP66



SBI7-312WDR



Video Sensor	Sony Effio-P 1/3" Colour CCD Wide Dynamic Range
Focal Length	2.8 to 12mm Varifocal
Resolution	700TVL
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	35 IR MAXI LED
IR Range	(Up to) Internal 50m, External 40m
IP Rating	IP65

FRACARRO

CIR700-49



Video Sensor	Sony Super HAD 1/3" Colour CCD
Focal Length	4 to 9mm Varifocal
Resolution	700TVL
Min. Available Light	0.3 lux @ f2.0 (0 lux with IR LED on)
IR Illuminator	36 IR LED
IR Range	(Up to) Internal 25m, External 20m
IP Rating	IP66



SBI7-922



Video Sensor	Sony Effio 1/3" Colour CCD
Focal Length	9 to 22mm Varifocal
Resolution	700TVL
Min. Available Light	0.3 lux @ f2.0 (0 lux with IR LED on)
IR Illuminator	42 IR MAXI LED
IR Range	(Up to) Internal 50m, External 30m
IP Rating	IP65



	SBI628	SBI636	SBI660
Video Sensor	Pixel Plus 1/3" CMOS		
Focal Length	2.8mm	3.6mm	6mm
Resolution	600TVL		
Min. Available Light	0.1 lux @ f1.2 (0 lux with IR LED on)		
IR Illuminator	12 IR LED	25 IR LED	25 IR LED
IR Range	(Up to) Internal 15m, External 5m	(Up to) Internal 20m, External 10m	(Up to) Internal 20m, External 10m
IP Rating	IP66		
Power Consumption	12V DC 45mA IR off, 150mA IR on (cont.)		

What is Wide Dynamic Range (WDR):
WDR imaging is a method used to capture and display both bright and dark areas simultaneously in the field of view of the camera in a way that there are details in both areas, i.e. bright areas are not saturated, and dark areas are not too dark.

AHD CAMERAS



SIB13MAHD



Video Sensor	1/3" Aptina CMOS DWDR
Focal Length	3.6mm
Resolution	960P @ 1.3MP
Day & Night	External Control or Auto
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	18 SMD IR LED
IR Range	25m Night Vision
IP Rating	IP66
Power Consumption	12V DC / 1A



SID13MAHD



Video Sensor	1/3" Aptina CMOS DWDR
Focal Length	3.6mm
Resolution	960P @ 1.3MP
Day & Night	External Control or Auto
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	3 Array IR LED
IR Range	30m Night Vision
IP Rating	IP65
Power Consumption	12V DC / 1A



SIB2MWDRAHD



Video Sensor	1/2.8" SONY CMOS Wide Dynamic Range
Focal Length	3.6mm
Resolution	1080P @ 2.0MP
Day & Night	External Control or Auto
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	4 Array IR LED
IR Range	40m Night Vision
IP Rating	IP66
Power Consumption	12V DC / 1A



SID2MWDRAHD



Video Sensor	1/2.8" SONY CMOS WDR
Focal Length	3.6mm
Resolution	1080P @ 2.0MP
Day & Night	External Control or Auto
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	3 Array IR LED
IR Range	30m Night Vision
IP Rating	IP65
Power Consumption	12V DC / 1A

INDOOR CONCEALED CAMERA



SISD2MAHD



Video Sensor	1/2.9" SONY CMOS
Focal Length	3.6mm
Resolution	1080P @ 2.0MP
Day & Night	External Control or Auto
Min. Available Light	0.05 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	No IR LED
IP Rating	IP65
Power Consumption	12V DC / 1A



SID2MWDRVFAHD



Video Sensor	1/2.8" SONY CMOS WDR
Focal Length	2.8-12mm Motorised Varifocal
Resolution	1080P @ 2.0MP
Day & Night	External Control or Auto
Min. Available Light	0.01 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	24 SMD IR LED
IR Range	40m Night Vision
IP Rating	IP65
Power Consumption	12V DC / 1A

2.5" MINI SPEED DOME PTZ CAMERA



SIPTZ3X2MAHD



Video Sensor	1/3" SONY CMOS 1080p Sensor
Focal Length	2.8 to 8mm
Zoom	Optical 3x
Resolution	1080P @ 2.0MP
Pan Travel	0°-355° continuous, speed 45°/sec
Tilt Travel	0°-90°, speed 30°/sec
IR Illuminator	Hidden IR LED
IR Range	15m Night Vision
IP Rating	IP65
Preset Points	220
Guard Tours	3 Groups
Power	12V DC 2A

SIPTZ3X2MAHD HIGHLIGHTS INCLUDE:

- Data over Coax (UTC) permits PTZ, Focus and Menu access from a compatible DVR.
- RS485 PTZ control pair included.
- 14cmØ x 11cm deep case with concealed fixing screws.
- Shrouded IR illumination assists night viewing clarity.
- Unique case for weather protected installation can conceal fixing screws and connecting cable.

METAL IR PTZ IP CAMERA



SIPTZ10X2MAHD



Video Sensor	1/2.9" Progressive Scan Aptina CMOS DWDR
Focal Length	4.9 to 49mm
Zoom	Optical 10x
Resolution	1080P @ 2.0MP
Pan Travel	0°-360°, speed 0.6-200°/sec
Tilt Travel	0°-90°, speed 0.6-75°/sec
Min. Available Light	0.2 lux @ f1.2 (Colour Mode), 0.02 lux @ f1.2 (B & W mode), IR ON 0LUX
IR Illuminator	6 Array IR LED
IR Range	60m Night Vision
IP Rating	IP66
Power	12V DC 2A

IP CAMERAS



SIB2MWDRIIP



Video Sensor	1/2.8" SONY CMOS WDR
Focal Length	3.6mm
Resolution	1080P @ 2.0MP
Compression	H.264 or H.265
Day & Night	External Control or Auto
Min. Available Light	0.005 lux @ f1.2 (Colour mode)
IR Illuminator	4 Array IR LED
IR Range	40m Night Vision
IP Rating	IP66
Power Consumption	PoE 48V; 12V DC 1A



SIB4M5IP



Video Sensor	1/3" SONY CMOS DWDR
Focal Length	3.6mm
Resolution	1520P @ 4.0MP
Compression	H.264 or H.265
Day & Night	External Control or Auto
Min. Available Light	0.005 lux @ f1.2 (Colour mode)
IR Illuminator	4 Array IR LED
IR Range	40m Night Vision
IP Rating	IP66
Power Consumption	PoE 48V; 12V DC 1A

CCTV



SID2MWD RIP



Video Sensor	1/2.8" SONY CMOS WDR
Focal Length	3.6mm
Resolution	1080P @ 2.0MP
Compression	H.264 or H.265
Day & Night	External Control or Auto
Min. Available Light	0.005 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	24 SMR IR LED
IR Range	40m Night Vision
IP Rating	IP65
Power Consumption	PoE 48V; 12V DC 1A



SID4M5IP



Video Sensor	1/3" Omnivision CMOS DWDR
Focal Length	3.6mm
Resolution	1520P @ 4.0MP
Compression	H.264 or H.265
Day & Night	External Control or Auto
Min. Available Light	0.1 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	24 SMR IR LED
IR Range	40m Night Vision
IP Rating	IP65
Power Consumption	PoE 48V; 12V DC 1A

VANDALPROOF METAL IR DOME IP CAMERA



SID4M5VFIP



Video Sensor	1/3" Omnivision CMOS DWDR
Focal Length	2.8 to 12mm Varifocal x4 zoom
Resolution	1520P @ 4.0MP
Compression	H.264 or H.265
Day & Night	External Control / Auto
Min. Available Light	0.1 lux @ f1.2 (0 lux with IR LED on)
IR Illuminator	30 DIP IR LED
IR Range	25m Night Vision
IP Rating	IP65
Power Consumption	PoE 48V; 12V DC 1A

METAL IR PTZ IP CAMERA



SIPTZ10X2MP



Video Sensor	1/2.9" Progressive Scan Aptina CMOS DWDR
Focal Length	4.9 to 49mm
Zoom	Optical 10x
Resolution	1080P @ 2.0MP
Pan Travel	0°-360°, speed 0.6-200°/sec
Tilt Travel	0°-90°, speed 0.6-75°/sec
Min. Available Light	0.2 lux @ f1.2 (Colour Mode), 0.02 lux @ f1.2 (B & W mode), IR ON 0 LUX
IR Illuminator	6 Array IR LED
IR Range	60m Night Vision
IP Rating	IP66
Power	12V DC 2A

CCTV ACCESSORIES

POWER SUPPLIES



FOR 1 CAMERA

SECPS12DC1.5 12V DC 1.5A Switchmode Power Supply, 2.1mm male connector.



FOR UP TO 6 CAMERAS

SECPS12DC5A 12V DC 5A Switchmode Power Supply, 2.1mm male connector.

CONNECTORS, ADAPTORS & CABLE



- PW8204** 4 way power supply splitter cable.
- PW8208** 8 way power supply splitter cable.

For use with 5Amp Power supply SECP512DC5A.



- PW8018** 2.1mm Inline DC Plug with screw terminals.
- PW8050** 2.1mm Inline DC Socket with screw terminals.

With screw terminals for power connection.



- RG59SECPWR/100B** RG59 CCTV Coax Siamese with 14 / 0.20 power cable, 100m drum.
- RG59SEC/250B** RG59 CCTV Coax Siamese with 14 / 0.20 power cable, 250m drum.

CAT5E / CAT6 BALUNS

CCTV Video and Power Balun. Send your video and power over economical CAT5e/CAT6 Cable, up to 250m.



- SBVP45HD** RJ45 Socket connection.
- SBVP01** Push pin connection.

HARD DRIVES



- HD1TB** 1TB Hard Disk Drive CCTV Specific.
- HD2TB** 2TB Hard Disk Drive CCTV Specific.
- HD3TB** 3TB Hard Disk Drive CCTV Specific.
- HD4TB** 4TB Hard Disk Drive CCTV Specific.
- HD6TB** 6TB Hard Disk Drive CCTV Specific.
- HD8TB** 8TB Hard Disk Drive CCTV Specific.

BNC ADAPTORS / CONNECTORS



- BA7001** BNC Female to Female.



- BA7002** BNC Male to BNC Male.



- BA7004** BNC Male to F Male.



- BA7005** BNC Male to F Female.



- BA7011** BNC Male to RCA Female.



- BA7022** BNC Male to 2 x BNC Female T type.



- BA7023** BNC Female to 2 x BNC Female T type.



- BA7025** BNC Female to PAL Female.



- BC7007D** BNC Male twist on RG6 Q with captive pin.



- BC7009B** BNC Male hex crimp RG59 9.5mmØ.

Please see our connectors section for more BNC adaptors and connectors.

CCTV TESTER

MULTI-FUNCTION CCTV TESTER



CTR500



H.265

Please see Instrument section for more information on this product.

- 3.5 inch wide angle touch screen display, 480 x 320 resolution.
- H.265 and H.264, 4K mainstream video display.
- 5MP AHD test, 2592 x 1944P 12.5 / 20fps.
- UTP CatX cable tester.
- Built in Wi-Fi, create a WIFI hotspot.
- Power Over Ethernet (POE) voltage measurement.
- IP address scan searches for IP addresses on the network.
- IP discovery, PING testing, shortcut button, drop-down menu.
- Dual window test, IP & Analog camera test.
- Time Domain Reflectometer (TDR) function allows user to measure cable lengths RJ45 for CatX cable and distance to breaks.
- Identify LAN cables at the network switch.
- DC12V 2A, PoE 48V DC power output.
- Rapid ONVIF, auto view video and create test report .
- 10 / 100 / 1000 Metre Ethernet, PoE, and Power monitoring.
- Full PTZ control for Pan, Tilt and Zoom cameras.

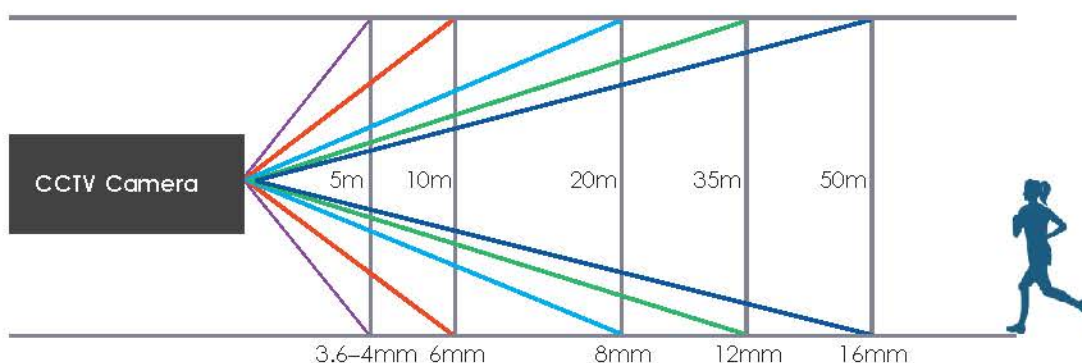
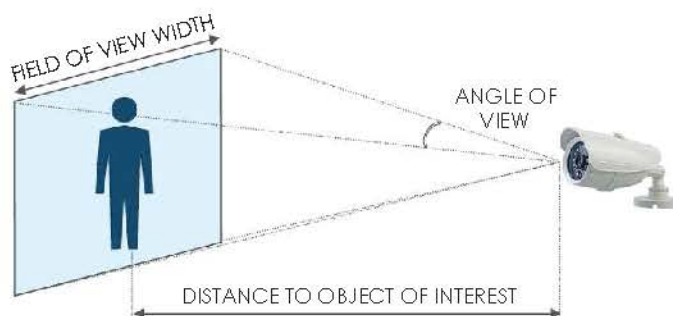
UNDERSTANDING CCTV FOCAL LENGTH AND FIELD OF VIEW

CCTV lenses are divided into either fixed or variable focus categories. Fixed lenses have a specific, non-adjustable focal length such as 2.8mm, 3.6mm right up to 70mm. Varifocal cameras have a focusable zoom range for example from 2.8–12mm, 9–22mm or even 6–50mm.

It is important to remember that the smaller the number — the wider the field of view. Using this chart to ascertain the required focal length is vital in capturing the image you want. Working out what your required field of view is and the distance from the camera, you can then select the correct focal length.

Looking at the chart below, you can see that a 2.8mm camera has an angle of view of 81.2° at the lens and at a distance of 5m from the camera, you will have a field of view that covers an area 8.6m wide by 8.6m high. At the other end of the spectrum, a 40mm lens has a 6.9° angle of view at the lens and at the same 5m away from the camera, a field of view that is only 0.6m wide by 0.6m high.

LENS FOCAL LENGTH	ANGLE OF VIEW	DISTANCE TO OBJECT OF INTEREST					
		5m	10m	20m	30m	40m	50m
2.8 mm	81.2°	8.6	17.1	34.3	51.4	68.6	85.7
4 mm	61.9°	6.0	12.0	24.0	36.0	48.0	60.0
6 mm	43.6°	4.0	8.0	16.0	24.0	32.0	40.0
8 mm	33.4°	3.0	6.0	12.0	18.0	24.0	30.0
9 mm	29.9°	2.7	5.3	10.7	16.0	21.3	26.7
10 mm	27.0°	2.4	4.8	9.6	14.4	19.2	24.0
12 mm	22.6°	2.0	4.0	8.0	12.0	16.0	20.0
15 mm	18.2°	1.6	3.2	6.4	9.6	12.8	16.0
18 mm	15.2°	1.3	2.7	5.3	8.0	10.7	13.3
22 mm	12.5°	1.1	2.2	4.4	6.5	8.7	10.9
30 mm	9.1°	0.8	1.6	3.2	4.8	6.4	8.0
40 mm	6.9°	0.6	1.2	2.4	3.6	4.8	6.0



Index of Products

Symbols

3DG-2S2-2T 109
3DGFLEX 109
4E2 15
4E3 15
4E512F 14
6D 14
6DF 14
6E6 14
6E7 14
6E12F 14
6E512F 13
6H1 14
10/4753/R 16
10/6269/R 16
10BL5F 17
10BL45F 17
10F2734 16
10F3546 16
10F4769 16
10RD4F 18
10RD5F 18
11D 14
11E6 14
11E7 14
11E8 14
11H 14
11H1 14
20/5461 16
20ALFA 16
20BL4F 17
20BL5F 17
20BL45F 17
20DELTA 16
20RD4F 18
20RD5F 18
76BGS36 43
1405RB 58
1405RW 58
1407RB 58
1407RW 58
2030F 69
2030SC 69
2122.. 72
2305.. 72
2355.. 72
2396.. 72

A

A1PA 20
AA2501 50
AA2502 50
AA2503 50
AA2504 50
AA3501 50
AA3502 50
AA3503 50
AA3504 50
AA3505 50
AA3506 50
AA3507 50
AA3508 50
AA3509 50
AA3510 50
AA3511 50
AA6301 50
AA6302 50
AA6303 50
AA6304 51
AA6305 51
AA6306 51
AA6307 51
AA6308 51
AA6309 51
AA6310 51
AA6312 51
AARC01 52
AARC02 52
AARC03 52
AARC04 52
AARC05 52
AARC06 52
AARC08 52
AARC09 52
AARC10 52
AARC11 52
ADSLFL01 77
ADSLFL02 77
ADSLFL03 77
AFI112LTE700AUS 32
AIA4 13
AI6A 13
AI23 142
AIA86232 127
AID65 142
AID80 142
AID90 142
AIDCB 90
AIDCBT 55
AIFLP3 13
AIL107T 143
AIMA224E 30
AIMA236E 30
AIMS2W4 125
AIMS2W8 125
AIMS3W4 125
AIMS3W8 125
AIP2W 146
AISP2 83
AISP4 83
AISW2 90
AITP10 86
AITP16 86
AITP22 86
AITVF 96
AMP522AM 126
AMP9762 33
AMP9763 35
AMP9763B 35
AMP9764 34
ANT1200A 20
ANT3030810 20
ANT3100510 14
AP201S 92
AP201 S PLUS 92
AP201 S PLUS (DVB-S) 92
AP2502 51
AP3501 51
AP3502 51
AP6301 51
AP6302 51
AP6303 51
AP6304 51
AQUASEAL-1 23
AQUASEAL-B 23
AR1001 46
AR1202 46
AR1203 46
AR1204 46
AR1205 46
AR1206 46

AR1207 46
AR1208 46
AR1209 46
AR1230 46
AR1250 46
AR1307 47
AR1310 47
AR1330 47
AR1350 47
AR1403 47
AR1407 47
AR1518 47
AR1530 47
AR1550 47
AR3309 47
AR3318 47
AR3350 47
AR4309 47
AR4310 47
AR4318 47
AR4330 47
AR4350 47
AR12051 46
AR12063 46
AR12065 46
AR120610 46
AR120615 46
AS2010 59
AS3106 59
AS3200 59
AS3501 61, 80
AS3811 59
AT2/.. 35
AT75-20 88
AT7520F 88
AT7520M 88
AVC3356 49
AVYUV4RC 43

B

BA7001 53, 139
BA7002 53, 139
BA7003 53
BA7004 53, 139
BA7005 53, 139
BA7008 53
BA7009 53
BA7011 53, 139
BA7016 53
BA7017 53
BA7022 53, 139
BA7023 53, 139
BA7024 53
BA7025 53, 139
BC12DC 98
BC75AC 98
BC75DC 98
BC7003 53
BC7007B 53, 139
BC7007C 53
BC7007D 53, 139
BC7009B 53, 139
BC7009C 53
BC7014 53
BC7015 53
BCH16 92, 93
BH900 22
BKT193RU 37, 106, 123
BLU220PLUS 18
BLU420F 18
BLU424F 18

BLU425F 18
BLV4F 14
BLV6F 14
BM-MB 103
BM-MRB 103
BM-MS 103
BMR3X 43
BM-R25S 103
BM-S50S 103
BM-SEB 103
BM-SES 103
BM-SXS 103
BM-VCRB 103
BM-VCRS 103
BP3 98
BP4 98
BP5 98
BP6 98
BP7 98
BP8 98
BR2-AA 116
BR4-AA 116
BS14.4U 92, 93
BS20 88
BS30 88
BS1234 98
BS1272 98
BT1 69
BT2F 69
BT2PAL 69

C

C5RB 57
C6RB 57
C7RB 57
C7S1B 57
C7S2B 57
C8RB 57
C10RB 57
C20BAG 98
C-1001 92, 93
CA1 16, 17
CA16 15
CA215 33
CA310 33
CA311 33
CA313 33
CA730 34
CAB6OUTPOWER 79, 105
CAB6RUMINI 78, 104
CAB8OUTPOWER 79, 105
CAB9RUMINI 78, 104
CAB10OUTPOWER 79, 105
CAB12OUTPOWER 79, 105
CAB15OUTPOWER 79, 105
CAB18BP4U 105
CAB19BP1U 105
CAB19BP2U 105
CAB19BP3U 105
CAB19BP05 105
CAB19BR1U 79, 105
CAB19CAST 79, 105
CAB19CFAN 79, 105
CAB19CMR1 79, 105
CAB19RP2U 79, 105
CAB19RP4U 79, 105
CAB19RP6U 79, 105
CAB192U400SH 79, 106
CAB1945SH 79, 106
CAB1955H06 78, 105
CAB1955H09 78, 105

Index of Products

CAB1955H12 78, 105
CAB1960SH 79, 106
CAB1960SS 79, 106
CAB191506 79, 104
CAB191509 79, 104
CAB191512 79, 104
CAB193002W 79, 104
CAB193003W 79, 104
CAB193004W 79, 104
CAB193006W 79, 104
CAB194506B 104
CAB194509B 104
CAB194512B 104
CAB194515B 104
CAB196020B 78, 104
CAB196025B 78, 104
CAB196030B 78, 104
CAB196035B 78, 104
CAB196042B 78, 104
CAB196046B 78, 104
CAB198042B 78, 104
CABLETIDY 57
CAD11 84
CAD12 84
CAD13 84
CAD14 84
CAPM25 21
CAPM32 21
CAPM38 21
CAT5E/305 50, 75
CAT5JOINER 77
CAT6/305 50, 75
CAT6/305F 50, 75
CAT6A/305 50
CAT6A/305F 75
CAT6JOINER 77
CB382P 26
CB3825P 26
CBK6 22
CBK12 22
CCBKIT 22
CD12 84
CD142 84
CD144 84
CD201 84
CD202 84
CD204 84
CD262 84
CD264 84
CDBC 28
CDIN2F 51
CDIN2M 51
CEF8 55
CEM3-6 27
CF-511 34
CFB1212 22
CFB1512 22
CFB1812 22
CFB2716 22
CFD21B 142
CH01 40
CIR700-36 135
CIR700-49 135
CJ59H 55
CL449A 69
CL449AS 69
CLT2 58
CMCP13 79, 105
CMS-EYE 57
CMS-GRABBIT 57

CMS-HOOK 57
CMS-ROD 57
CN9 84
COM6 124
COM12 124
CS382 26
CS3815 26
CS3825 26
CS51615 26
CS51625 26
CSVMD4 51
CT100 58
CT190 58
CT300 58
CT350 58
CTR500 98, 140
CVNWM2 28
CVNWP 28
CWDMM2 113
CWDMM5 112
CXLRFL 51
CXLRFP 51
CXLRML 51
CXLRMP 51

D

DA10-VOICE CONNECT 76
DA43 34
DAAMP5 126
DAILKJ 77
DAILKJ-C6 77
DAS202 95
DAT103 94
DCB 23
DCC225 124
DCC304 124
DCC404 124
DE1-10 86
DE1-14 86
DE1-18 86
DE1-22 86
DE2-10 86
DE2-14 86
DE2-18 86
DE2-22 86
DE4-12 86
DE4-14 86
DE4-18 86
DE4-22 86
DE6-16 86
DE6-20 86
DE6-25 86
DE8-16 86
DE8-20 86
DE8-25 86
DG OHM COMPACT 93
DG-OHM FULL HD 93
DG-OHM HD 93
DIGIT-65 142
DKG-GF-B 24
DKG-GF-S 24
DKG-KIT-B 24
DKG-KIT-S 24
DKG-MF-B 24
DKG-MF-S 24
DL110 61, 80
DL304IDC 62, 80
DL314KR 61, 80
DL501 59
DL518 61

DL702A 62, 80
DL801F 60
DL806H 60
DL806J 60
DL807 61
DL808 61
DL1068 61, 80
DL2668R 62, 80
DL5206 59
DLA002 116
DM36/10 86
DM36/13 86
DM36/16 86
DM36/19 86
DM37 86
D-MATRIX-4S EVO 108
D-MATRIX-8T 108
DNP10 26
DNP12 26
DPOUVFSDP 87
DSD4121RVPVRREADY 149
DSQ4B 146
DSQ4W 146
DSR46391TB 149
DVBS2-800CA 149
DVMI 22
DVRMILANO16 134
DVRSDI2-8 134
DVRVENEZIA4 960H 133
DVRVENEZIA16 960H 133
DW32 34
DW42 34

E

EC7001 53
EC7002 53
EC7003 53
EC7004 53
EC7005 54
EC7006 54
EC7007 54
EC7008 54
EC7009 54
EC7010 54
EC7011 54
EC7012 54
EC7013 54
EC7016 54
EC7017 54
EC7018 54
EC7019 54
EC7020 54
EC7022 54
EC7023 54
EC7024 54
EC7026 54
EC7027 54
EM230 21
EM280 21
EM690 21
EM1020 21
EM1500 21
EMK 21
ES345/32 87
ES345/39 87
ES1008P 77
ESV45 87
ESV45S 87
ESVU 87
ESVUU 87

EU503 69
EU503DE 69
EU503F 69
EU503ISOL 69
EU503PF 69
EZYGUTTERMOUNT 145

F

FA1-6 85
FA1-8 85
FA1-10 85
FA1-12 85
FA1-16 85
FA1-20 85
FA1-24 85
FA1-30 85
FA2-8 85
FA2-10 85
FA2-12 85
FA2-16 85
FA2-20 85
FA2-24 85
FA2-30 85
FA4-10 85
FA4-12 85
FA4-14 85
FA4-16 85
FA4-18 85
FA4-20 85
FA4-24 85
FA4-27 85
FA4-30 85
FA4-MT 86
FA8-14 85
FA8-16 85
FA8-18 85
FA8-20 85
FA8-24 85
FA8-27 85
FA8-30 85
FA7001 54
FA7001N 54
FA7002 54
FA7002FA 54
FA7004 55
FA7006 55
FA7013 55
FA7014 55
FA7015 55
FA7016 55
FA7017 55
FA7018 55
FA7019 55
FA7022 55
FA7023 55
FA7024 55
FA7025 55
FA7026 55
FAE50 89
FAE60 89
FAS1-12 86
FAS1-15 86
FAS2-12 86
FAS2-15 86
FAS4-15 86
FAS4-25 86
FATT3 88
FATT6 88
FATT6PP 88
FATT12 88
FATT12PP 88

Index of Products

FATT24 88
 FATT24FP 88
 FB4 89
 FB607042A 145
 FBKDC 90
 FBPA50 89
 FBPB50 89
 FBPC50 89
 FBPD50 89
 FBPE50 89
 FC7001B 56
 FC7002B 56
 FC7002C 56
 FC7004B 56
 FC7005 56
 FC7005L 56
 FC7006B 56
 FC7006C 56
 FC7006D 56
 FC7008B 56
 FC7008C 56
 FC7009B 56
 FC7009C 56
 FC7013C 56
 FC7014 55
 FC7016 56
 FC7017 56
 FC7018 56
 FC7019C 56
 FC7019D 56
 FC7020 56
 FC7022 56
 FC7023 56
 FC7024 56
 FC7025 56
 FC7026 56
 FCBOOT 56
 FCCGB1 56
 FCV300 93
 FDC12B 85
 FDC17B 85
 FDC23B 85
 FH1 88
 FHP12 97, 114
 FKLA 23
 FL0.5MMRRBQUAD 48
 FL3BPMH 90
 FL10FFSBQUAD 48
 FL10FMSBQUAD 48
 FL10MMRW 48
 FL15MFSB 48
 FL15MFSBQUAD 48
 FL15MFSW 48
 FL15MMSB 48
 FL15MMSW 48
 FL18FFMMW 48
 FL18FFSBQUAD 48
 FL18FMSBQUAD 48
 FL18FMSWQUAD 48
 FL18MFSBQUAD 48
 FL18MMSBQUAD 48
 FL18MMSWQUAD 48
 FLEXITILE 23
 FLRJ45F 74
 FM50FV 90
 FO-SC/APC-DEC 116
 FP2E 92, 93
 FP/FM 90
 FRPRO10 110
 FS/AU28 90

FS/FM 90
 FWM 24

G
 GAP 25
 GCG25 25
 GELCON2 77
 GELCON3 77
 GMANT2 21
 GPA32 26
 GPB39 26
 GPC43 26
 GPD50 26
 GW30/6X1.12 25
 GW180/7.90 25
 GWC3 25
 GWC5 25

H
 HC01 40
 HD1TB 139
 HD2TB 139
 HD3TB 139
 HD4TB 139
 HD6TB 139
 HD8TB 139
 HD8TB 139
 HDC6IRL 41
 HDEZILOCK 41
 HDM20 45
 HDMIB1.5 45
 HDMICA3 45
 HDMIDVI 41
 HDMie0.5 45
 HDMie1.0 45
 HDMie2.0 45
 HDMie3 45
 HDMie3.0 45
 HDMie5.0 45
 HDMie8.0 45
 HDMie10 45
 HDMie15 45
 HDMIFF 41
 HDMIHV1 45
 HDMIHV2 45
 HDMIHV3 45
 HDMILP2.0 45
 HDMIMATRIX4X2 40
 HDMIMFRA 41
 HDMIRAMFA 41
 HDMIREP 40, 45
 HDMISP2 40
 HDMISP4 40
 HDMISP8 40
 HDMISP16 40
 HDMISW1X3 40
 HDMISW3 40
 HDT1500 145
 HHS242 148
 HHT651 148
 HIR434 42
 HL90 128
 HL103 128
 HL107 128
 HL108 128
 HL111 128
 HL112 128
 HL500FM 128
 HL500RAFM 128
 HL500SPLICE 128
 HL500ST 128
 HL750SL 128

HL7001 128
 HLFC6 128
 HLHT106 128
 HLPG11-PG11 128
 HLPG11-RG11 128
 HLPG111-5/8 128
 HMFB001 146
 HN14P 26
 HN38P 26
 HN316P 26
 HN516P 26
 HSB45 22
 HSB90 22
 HT0037 62, 80
 HT106A 60
 HT109 59
 HT218 58
 HT224A 60
 HT224D 60
 HT501 59
 HT507 61
 HT516A 61
 HT516B 61
 HT601B1 60
 HT807RG611 61
 HT2206F 60
 HTSPEEDTERM 62, 80
 HVS580 42
 HVS890 22
 HW13M4 26

I
 INC01 96, 146
 IREHDMI 42
 IREUSB 41
 IREUSB4 41
 IS3KV 90

J
 JBS516 22
 JBSS 22
 JCASS-500-P3 49
 JS26A00 59

K
 K120A/.. 117
 K120L 35
 K120L/.. 117
 KA400 119
 KA800 119
 KCMU 117
 KCMU/S 117
 KCPN 118
 KD100 119
 KDTR-S 118
 KF/AU.. 117
 KFCJ21 143
 KFH21 143
 KFH22N 144
 KFM21 143
 KITKCPN5 118
 KITLPV345FRP 27
 KITVASTCARAVAN 27, 146
 KITVASTCVN2 27
 KMS 117
 KP15 119
 KP35 119
 KP62 119
 KPN42 119
 KPN51 119
 KPR41 119

KPS06 36
 KPS08 36
 KPS08F 36
 KRF15 119
 KRF45 119
 KRX 115
 KSP1-2 116
 KSP1-4 116
 KTX 115
 KW33B 118
 KW33C 118
 KW35E 118
 KW44C 118
 KX125 118

L
 LA2-20 35
 LARM 23
 LARMWH 23
 LCD201L 103
 LCDUCM 103
 LCDWA5 102
 LDA03-113N 101
 LDA03-113S 101
 LDA03-223N 101
 LDA03-223S 101
 LNB DUALAUSTAR 144
 LNBQUAD 144
 LP3F 12, 13
 LP4F 12
 LP45F 12
 LP45HV 10
 LP45NF 12
 LP345F 11
 LP345MF 11
 LP345MHV 10
 LP6363 101
 LP6448 101
 LPA13-444BL 101
 LPA13-484BL 101
 LPA13-484CBL 102
 LPA50443 101
 LPV345F 11
 LPV345HV 10
 LRA32 26
 LRB39 26
 LRC47 26
 LRD50 26

M
 M1-4/5FV 87
 M1825 21
 M1832 21
 M2425 21
 M2432 21
 M3032 21
 M3632 21
 M4532 21
 M4538 21
 MAGICSTRIP 57
 MBX5710 32
 MBX7750 33
 MD100US 38
 MD100VS 38
 MDA15U 31
 MDA15V 31
 MDA15W 31
 MDA20HT 31
 MDA20UT 31
 MDA3047 127
 MDA6587 127

Index of Products

- ME900 21
ME1200 21
ME1500 21
ME1800 21
MEKIT 21
MEX800/06 127
MEX800/08 127
MHBT 69
MHBTW 69
MHU25F 31
MHU25FS 31
MHU35F 31
MHU35FS 31
MHW25F 31
MHW25FE 31
MHW25FS 31
MHW35F 31
MHW35FS 31
MHW43FS 31
MIN/MIN 114
ML01 126
ML02 126
MM214 88
MM807 87
MOD1BKT 37, 123
MOD1HD 37, 123
MP04AF 119
MP05AF 119
MP13AF 119
MP45AF 119
MS24SM 126
MS28SM 126
MS34SM 126
MS38SM 126
MS58SM 125
MS100 126
MS206 126
MS512SM 125
MS516SM 125
MS524SM 125
MS532SM 125
MT510 126
MT515 126
MT520 126
MVUVF 87
MW13FR 70
MW113A35 71
MW113BL 71
MW113BNC 71
MW113BR 70
MW113C6M 71
MW113DVI 71
MW113FF 70
MW113FF2 70
MW113FR 70
MW113HDMI 71
MW113KS 71
MW113PF 71
MW113RCA1 70
MW113RCA2 70
MW113RCA3 70
MW113RGB 70
MW113SPK 71
MW113TOS 71
MW113USB2 71
MW113USB3 71
MW113VGA 71
MX51HLF 87
MX61UVF 87
MX201 87
- MX206 87
MX208 87
MXA0F 87
- N**
NBNENC 79, 106
NBNFK 106
NG96F 92
NG500 93
NG754X 96
NIITO-11 57
- O**
OLS7315 97
OPM6010 97
OPSP1X2 116
OPSP1X4 116
OPSP1X5 116
OPSP1X6 116
OPSP1X8 116
OPSP1X9 116
OPSP1X10 116
OPSP1X12 116
OPTATT3DB 114, 116
OPTATT5DB 114, 116
OPTATT7DB 114, 116
OPTATT10DB 114, 116
OPTATT14DB 114, 116
OPTATT15DB 114, 116
OPT-RX-4MINI 112
OPT-RX51 115
OPT-RX54 115
OPTRX-DT 112
OPT-RXTV 112
OPT-TX51 115
OPT-TX54 115
OPTTX-1510 111
OPTTX-1530 111
OPTTX-1550 111
OPTTX-1570 111
OPTTX-DT 111
OT1009 47
OT1018 47
OT1030 47
OT1050 47
OT1100 47
OT1150 47
OT1200 47
OTDIV 43
OTJOIN 43
OTMADA 43
- P**
PA2 84
PA3 84
PA4 84
PA6 84
PA8 84
PATCH10BRACKET 76
PATCH108PC5E 76
PATCH108PC6 76
PATCH1012PC5E 76
PATCH1012PC6 76
PATCHCAT5E12W 76
PATCHCAT5E24 76, 105
PATCHCAT6A24 74
PATCHCAT612W 76
PATCHCAT624 76, 105
PATT3 88
PATT6 88
PATT12 88
- PATT24 88
PCCAT6.3-BLACK 75
PCCAT6.5-BLACK 75
PCCAT6.5-BLUE 74
PCCAT6.5-GREEN 75
PCCAT6.5-RED 75
PCCAT6.5-WHITE 74
PCCAT6.5-YELLOW 75
PCCAT6A1 74
PCCAT6A2 74
PCCAT6A3 74
PCCAT6A5 74
PCCAT6A10 74
PCCAT61-BLACK 75
PCCAT61-BLUE 74
PCCAT61-GREEN 75
PCCAT61-RED 75
PCCAT61-WHITE 74
PCCAT61-YELLOW 75
PCCAT62-BLACK 75
PCCAT62-BLUE 74
PCCAT62-GREEN 75
PCCAT62-RED 75
PCCAT62-WHITE 74
PCCAT62-YELLOW 75
PCCAT63-BLACK 75
PCCAT63-BLUE 74
PCCAT63-GREEN 75
PCCAT63-RED 75
PCCAT63-WHITE 74
PCCAT63-YELLOW 75
PCCAT65-BLACK 75
PCCAT65-BLUE 74
PCCAT65-GREEN 75
PCCAT65-RED 75
PCCAT65-WHITE 74
PCCAT65-YELLOW 75
PCCAT610-BLACK 75
PCCAT610-BLUE 74
PCCAT610-GREEN 75
PCCAT610-RED 75
PCCAT610-WHITE 74
PCCAT610-YELLOW 75
PCCAT615-BLACK 75
PCCAT615-GREEN 75
PCCAT615-RED 75
PCCAT615-WHITE 74
PCCAT615-YELLOW 75
PCCAT620-BLACK 75
PCCAT620-GREEN 75
PCCAT620-RED 75
PCCAT620-WHITE 74
PCCAT620-YELLOW 75
PCCATA1 74
PENTA-85 142
P2G 146
PI-8AL 37
PICA524WHITE 62
PICA524YELLOW 62
PICADRY 62
PICAINK-BLACK 62
PICAINK-BLUE 62
PICAINK-RED 62
PICAREFILL-WR 62
PICAREFILL-WS 62
PIGTAIL 116
PIK170FDC 37
PIK2750 37
PK3940 74
PLB13 100
- PLB17 100
PLB34 100
PLB34L 100
PLB35L 102
PLB44 100
PLB45 102
PLB46F 100
PLB47 102
PLBWA7 102
PR003 114
PR005 114
PR010 114
PR025 114
PR100 114
PRADAPTER-SC/MINI 114
PRB1 103
PRO1059 42, 43
PRO1188A 43
PRO1188AS 43
PRO1235D 42
PRO1235DS 42
PRO1235DSWP 42
PRO1254D 42, 43
PRO1259 43
PRO1287 43
PRO1326 42
PS5DCP 36
PS12DCF 36
PS12DCP 36
PS14DCF 36
PS14DCP 36
PS17ACP 36
PS18DCF 37
PS22ACF 36
PS22ACP 36
PS24DCP 36
PSK06 36
PSK06F 36
PSK08 36
PSK08F 36
PSK12F 36
PSK12S 36
PSK18F 36
PSK18KR 36
PSK18S 36
PSUSBA1A 46
PU4AF 19
PU4F 19
PU8F 19
PU16F 19
PULLCON 114
PV2 23
PV8 23
PV10 23
PVCBK 57
PVP 23
PVZ-60 23
PW8018 139
PW8050 139
PW8204 139
PW8208 139
- R**
RAWM 24
RCA90B 52
RCA90R 52
RCAF01B 52
RCAF01R 52
RCAF02B 52
RCAF02R 52
RCAM01B 52

Index of Products

RCAM01R 52	SAM1075 26	SI10404 130	SP475FG 82
RCAM01Y 52	SAS2HC-G2 127	SI10808 130	SP475FPV 83
RCAM02 52	SAS3HC-G3 127	SI21616 131	SP1275FP 82
RCAM02B 52	SAS3U-G 127	SI63216 131	SP1675FP 82
RCAM02R 52	SAT2G-4 128	SIB2MWDRAHD 136	SP6125 84
RCAM03 52	SAT2G-8 128	SIB2MWDRIIP 137	SP6126 84
RCAM04B 52	SAT2G-11 128	SIB4M5IP 137	SP6127 84
RCAM04R 52	SAT2G-14 128	SIB13MAHD 136	SPK-10 49
RCAM6 52	SAT2G-17 128	SID1.3MAHD 136	SPK-12 49
RCAM59 52	SAT2G-20 128	SID2MWDRAHD 136	SPK-14 49
RCAMC6 52	SAT2G-23 128	SID2MWDRIIP 138	SPK-16 49
RCAMC59 52	SAT2G-26 128	SID2MWDRVFAHD 136	SPK-18 49
RFD2169BF 38	SAT2G-29 128	SID4M5IP 138	SPK-2224 49
RFD2169IR 38	SAT4G-8 128	SID4M5VFIP 138	SPK-2924 49
RG6/30B 48	SAT4G-11 128	SID13MAHD 136	SPK-4176 49
RG6/100B 48	SAT4G-14 128	SIG7100 121	SPKC165 44
RG6/100W 48	SAT4G-17 128	SIG7111 122	SPK-CM800 44
RG6/305B 48	SAT4G-20 128	SIG7120 120	SPK-ECS6.5 44
RG6Q/30B 49	SAT4G-23 128	SIG7121 120	SPK-ECS8 44
RG6Q/100B 49	SAT4G-26 128	SIG7282 122	SPKEWS530C 44
RG6Q/150BSIAM 49	SAT4G-29 128	SIG7282S 122	SPKEWS600 44
RG6Q/150B/SIAMFA 49	SAT4G-32 128	SIG7330 121	SPKOD5B 44
RG6Q/305B 49	SAT29D 34	SIG7340 121	SPKOD5W 44
RG6Q/305BE 49	SAT42D 34	SIG7400 122	SPK-RCSR650 44
RG6Q/305B/SPOOL 49	SATCM 145	SIG7401 122	SPK-RCSR800 44
RG6Q/305FA 49	SATFM 145	SIG7531 120	SPKWS612 44
RG6QF/305B 49	SATFMHD 145	SIG7540 120	SQ722 96, 146
RG6QF/305FA 49	SATGM 145	SIG7600-HTX 120	SRC101 43
RG6QLSZH 49	SATMM8-11 128	SIG7622 120	SS3825P 26
RG6QM/305B 49	SATMM8-14 128	SIG7624 120	STRAP-SEAL 22
RG11/BELDEN 49	SATMM8-17 128	SIG7710 121	SUVTM 84
RG11Q/305B 49	SATMM8-20 128	SIG7720 121	SUVTP 84
RG11Q/305FA 49	SATMM8-23 128	SIG7730 121	SWI4508DT 113, 125
RG11QF/305B 49	SATMM8-26 128	SIG7900 122	SWI4512DT 113, 125
RG11QF/305FA 49	SATMM8-29 128	SIG7901 123	SWI4516DT 113, 125
RG59/30B 48	SATWM 145	SIG7902 123	SWI4524DT 113, 125
RG59/100B 48	SB5-65 92	SIG7904 123	SWI4532DT 113, 125
RG59/305B 48	SB1060 26	SIG7905 122	
RG59AV3 48	SB1216 22	SIG9506S 125	T
RG59SEC/250B 49, 139	SB1816 22	SIG9606S 125	TB14 26
RG59SECPWR/100B 49, 139	SB2416 22	SIGMA6HDLTE 15	TB516 26
RJ12FF 78	SBC25 22	SIGMA9 15	TBS 26
RJ45FF 78	SBC32 22	SIGMAPOWERHD 15	TC870C 96
RJ45KS 68	SBC38 22	SIPTZ3X2MAHD 137	TC7001 55
RJ126P6C/SLD 78	SBF700 22	SIPTZ10X2MAHD 137	TC7002 55
RJ458P8C 78	SBF900 22	SIPTZ10X2MIP 137, 138	TE75PAL 55
RJ458P8C/100 78	SB17-312WDR 135	SISD2MAHD 136	TE75SC 55
RJ458P8C/SLD 78	SB17-922 135	SISD20MAHD 136	TERZA6HD 13
RJ458P8C/SLD/100 78	SB1628 135	SJA 146	TFM 26
RJ458P8C/TOOLLESS 78	SB1636 135	SJVB 146	THORNYDEVIL 24
RMI1812 21	SB1660 135	SP2SDP 83	T468 58
RM2716 21	SBS16 145	SP2TIP 82	T800 58
RMI 24	SBVP01 139	SP3SDP 83	TL5G1005D 77
RMT120 24	SBVP45HD 139	SP3TIP 82	TL5G1008D 77
RODKIT4MM5M 57	SC3162 26	SP4SDP 83	TL5G1016D 77
RODKIT6MM6M 57	SC316175 26	SP4TIP 82	TM20 26
RS1265 26	SC/APC-SC/APC 114, 116	SP5TIP 82	TM30 26
RS14100 26	SCR41S 144	SP6SDP 83	TM40 26
RT3 57	SE3 25	SP6TIP 82	TM50 26
RT6 57	SE4 25	SP8SDP 83	TMA20 26
	SE5 25	SP8TIP 82	TMA30 26
	SE7 25	SP22GDV 83	TMA40 26
S	SECP512DC1.5 138	SP32GDV 83	TMA50 26
SA162F 35	SECP512DC5A 138	SP42GDV 83	TMU/2 85
SA164F 35	SF4 90	SP52FA 126	TMU/4 85
SA504B 59	SF5 90	SP54FA 126	TORCHHEAD 72
SADC8HC-G 127	SHK-01 103	SP275F 82	TORCHHEAD-REC 72
SADC12HC-G 127	SI104T 132	SP275FG 82	TPE 119
SAM840 26	SI108T 132	SP275FPV 82	TRIKIT 25
SAM890 26	SI216T 132	SP375FPV 83	TRIKIT2 25
SAM1050 26			TRIKITCOM 25

Index of Products

TRMF-S 25
TRMIRON. 25
TRMIRONCB. 25
TRMIRONCB. 25
TRMIRONGR. 25
TRMRUBBER 25
TRMTILE 25
TRMTILE. 25
TRMTILECB. 25
TRMTILEGR 25
TRMTILEGR. 25
TS1949 60
TS2011 60
TVL242 28, 101
TVR300 49

U

UB51685 23
UB516140 23
UEM2 21
USB1AA 46
USBAL1.2Q 46
USBAM1.2 46

V

VASTCAM 123
VBOFFSET 23
VBP 23
VGA2 47
VGA3 47
VGA5 47
VGA10 47
VGA15 47
VGA20 47
VGA25 47
VGAM/F10 47
VGAM/F15 47
VGAM/F20 47
VOT1/2 114
VOT2/3 114
VOT3/4 114
VOT7/3 114
VOT8/2 114
VOT9/1 114
VOV2 114
VOV4 114
VPB1 24
VS2KIT 47
VS2001 47
VS2002 47
VS2012 47
VS2015 47
VS2018 47
VS2020 47
VS2021 47
VS2051 47

W

WBS 69
WCP 69
WN316 26
WP5 63
WP5F 63
WP5/ISOL 63
WPB 63
WPBP2 64
WPBULLNOSEB 64
WPBULLNOSE/FLUSH 64
WPBULLNOSEW 64
WPBULLRECESSB 64
WPBULLRECESSW 64

WPBULLSLIMW 64
WPC1 65
WPC2 65
WPC3 65
WPC4 65
WPC6 65
WPCA1 65
WPCA2 65
WPCABP 65
WPCB 65
WPCBRUSH 64
WPCC1 65
WPCC2 65
WPCC3 65
WPCC4 65
WPCC6 65
WPCCS1 67
WPCCS2 67
WPCCS3 67
WPCCS4 67
WPCCS5 67
WPCCS6 67
WPCCSB 67
WPCS1 65
WPCS2 65
WPDE 63
WPE1 68
WPE2 68
WPE3 68
WPE4 68
WPE6 68
WPF 63
WPFOFFF 63
WPFOFFRJ12 63
WPFTAP 63
WPM500B 68
WPM619KC 68
WPM619M4 68
WPM619MM 68
WPMBPB 68
WPMBPGB 68
WPMBPGR 68
WPMBPR 68
WPMCB 67
WPMCBNCBNC 67
WPMCBNCF 67
WPMCBPGB 66
WPMCBPGR 66
WPMCCAT5EW 67, 77
WPMCCAT6 67, 77
WPMCCAT6W 67, 77
WPMCCFF 66
WPMCCFFFA 66
WPMCHDMI 66
WPMCHDMIRA 66
WPMCHDMITAIL 66
WPMCM3 67, 77
WPMCPF 66
WPMCPFRA 66
WPMCRCAF 66
WPMCRCARCA 66
WPMCRCASB 67
WPMCRCASG 67
WPMCRCASY 66
WPMCRJ11 67, 77
WPMCRJ45 67, 77
WPMCS3.5 67
WPMCSW16A 67
WPMCUSB 67
WPME 68

WPMFF 68
WPMFFP 68
WPMHDMI 68
WPMPF 68
WPMRF 68
WPMRS 68
WPMTELW 67, 77
WPRCA2 64
WPRCA4 64
WPRPS01 69
WPRPS02 69
WPTVFM 63
WPVCR/TV 63
WS14ZP 26
WS38ZP 26
WS316ZP 26
WS516ZPL 26
WSC516 26

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