

# Cascadia

Creating Remote Possibilities™

**4 Channel DVRT**  
**120 IPS Record / 120 IPS Display**  
**w/ 4 Channels of Real Time**  
**Recordable Audio & 4 Alarm I/O's**



**PLE1204**

Model	PLE1204
Video Input	4 Channel
Loop Through Output	4 Channel
Input Level	1.0Vp-p +/-10% Composite, 75 Ω Unbalanced
Video Standard	NTSC / PAL
Main TV Output	Multi-Screen VGA
Spot TV Output	Spot 1= Quad, Spot 2 = Quad, Main Spot = 1 Camera
Display Resolution	720x480 / 720x576 (NTSC / PAL)
Display (Frames per Second)	120 fps
Camera Name	Max. 22 Characters
Screen Split Control	1 / 4 Screen
Screen Rotate Control	1 ~ 600 seconds (10 Minutes)
Image Control	Contrast, Bright, Saturation, Hue.
Compression	ADPCM / 8khz Mono / 32Kbps
Input Channel	4 Channel
Input Level	TBD (0.5 ~ 1.4Vp-p @ 20 Ω)
Live Output	1 Channel
Compression	Hardware MPEG-IV
Resolution (pixels)	NTSC: 352 X 240 / 704 X 240 / 704 X 480
Image size	1 ~ 3 kbytes/frame @ 352 X 240 (CIF)
	2 ~ 6 kbytes/frame @ 704 X 240 (HALF VGA)
	4 ~ 12 kbytes/frame @ 704 X 480 (VGA)
Maximum Recoding Speed (NTSC)	120 fps @ 352X240
	60 fps @ 704X240
	30 fps @ 704X480
Mode	Continuous / Scheduled / Motion Detection / Sensor Event
Scheduling	Weekly Scheduling by one hour
Alarm Duration	0 ~ 600 seconds (10 minutes), Continues
Internal EIDE Storage	Internal 2 Hard Drives
External EIDE Storage	Max. 6 HDD (500GB x 6HDD = 3.0TB)
Water Marking	Support (Exported Image Only)
Summer Time	Support
Client Software	Web (Live, Search and PTZ), CTMS Option (Multiple DVR's)
Dimensions H x W x D (mm)	88 x 431 x 440

**PRO-Series Linux Embedded**  
**PLE1204 (4 Channel)**

**Two Year Warranty**

*\*Specifications subject to change without notice.*

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Model	PLE1204 (cont)
Searching Method	Date / Time / Blank / Smart Search
Date/Time Search	Selectable on Map and Calendar
Event Search	Search Events for Video
Smart Search	Motion search by user define (Sherlock Search)
Blank Search	Search 3 sec or more blank term
Monitoring Environment	Client S/W, Central Monitoring System, Web
Display	Appx. 16ch Full Motion Transmission
	Max. 16ch Real-time Transmission (Appx. 4 clients accessible)
Search	Supporting Multi. Client
	(Appx. 1 clients accessible)
System Logging	System Logging
	(Power Failure Checkable)
Monitoring	Two independent Watchdog (Reliable Hardware Watchdog + Software Watchdog)
Recovery	Auto-Reboot By Watchdog
	Automatic Database Recovery
Sensor Input	4 Ports / NC or NO
	Non-isolated TTL input
	Ground Common
Alarm Output	4 Ports / NC or NO (optional)
	Isolated Relay Output
	Four Isolated Common
Motion Detection	Available for each camera
	Multi Detection Level
Video Input	BNC 4 Ports
Loop Through output	BNC 4 Ports
Audio Input (mono)	RCA 4 Ports
MIC Input	Mini Stereo Jack
Audio Output (mono)	Line Output, Mini Stereo Jack
Main TV Output	RCA
S-VIDEO (Main TV)	4 pin Mini DIN
Spot Monitor Output	BNC
Sensor Input	12 pin Terminal block x 2
	(Include Ground Common 4 Pin)
Alarm Output	12 pin Terminal block
	(Include Isolated Common 4 Pin)
PTZ (RS-485)	2 Pin Terminal Block, Half Duplex
Ethernet	RJ-45, 10/100Mbps
USB2.0	Front 1 port, Rear 2 ports
VGA Output	15 pin female DSUB
Power Source	115 ~ 230VAC (47 ~ 63Hz)
Power Consumption	TBD (Appx.230 Watt)
Operating Temp.	+5 ~ +40 C
Storage Temp.	-5 ~ +60 C
Humidity	30 ~ 80%RH(non-condensing)
Color	Black (Pantone Color)
Dimension	431(W) x 88(H) x 440(D) mm
Weight	Appx. 14 kg, Include Single HDD

**PRO-Series Linux Embedded  
PLE1204 (4 Channel)**

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# Cascadia

Creating Remote Possibilities™

**9 Channel DVRT**  
**120 IPS Record / 270 IPS Display**  
**w/ 4 Channels Audio**  
**9 Alarm Inputs & 8 Relay Outputs**



**PLE1202709**

Model	PLE1202709
Video Input	9 Channel
Loop Through Output	9 Channel
Input Level	1.0Vp-p +/-10% Composite, 75 Ω Unbalanced
Video Standard	NTSC / PAL
Main TV Output	Multi-Screen VGA
Spot TV Output	Spot 1= Quad, Spot 2 = Quad, Main Spot = 1 Camera
Display Resolution	720x480 / 720x576 (NTSC / PAL)
Display (Frames per Second)	270 fps
Camera Name	Max. 22 Characters
Screen Split Control	1 / 4 / 9 Screen
Screen Rotate Control	1 ~ 600 seconds (10 Minutes)
Image Control	Contrast, Bright, Saturation, Hue.
Compression	ADPCM / 8khz Mono / 32Kbps
Input Channel	9 Channel
Input Level	TBD (0.5 ~ 1.4Vp-p @ 20 Ω)
Live Output	1 Channel
Compression	Hardware MPEG-IV
Resolution (pixels)	NTSC: 352 X 240 / 704 X 240 / 704 X 480
Image size	1 ~ 3 kbytes/frame @ 352 X 240 (CIF)
	2 ~ 6 kbytes/frame @ 704 X 240 (HALF VGA)
	4 ~ 12 kbytes/frame @ 704 X 480 (VGA)
Maximum Recoding Speed (NTSC)	120 fps @ 352X240
	60 fps @ 704X240
	30 fps @ 704X480
Mode	Continuous / Scheduled / Motion Detection / Sensor Event
Scheduling	Weekly Scheduling by one hour
Alarm Duration	0 ~ 600 seconds (10 minutes), Continues
Internal EIDE Storage	Internal 2 Hard Drives
External EIDE Storage	Max. 6 HDD (500GB x 6HDD = 3.0TB)
Water Marking	Support (Exported Image Only)
Summer Time	Support
Client Software	Web (Live, Search and PTZ), CTMS Option (Multiple DVR's)
Dimensions H x W x D (mm)	88 x 431 x 440

**PRO-Series Linux Embedded**  
**PLE1202709 (9 Channel)**

**Two Year Warranty**  
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Model	PLE1202709 (cont)
Searching Method	Date / Time / Blank / Smart Search
Date/Time Search	Selectable on Map and Calendar
Event Search	Search Events for Video
Smart Search	Motion search by user define (Sherlock Search)
Blank Search	Search 3 sec or more blank term
Monitoring Environment	Client S/W, Central Monitoring System, Web
Display	Appx. 16ch Full Motion Transmission
	Max. 16ch Real-time Transmission (Appx. 4 clients accessible)
Search	Supporting Multi. Client
	(Appx. 1 clients accessible)
System Logging	System Logging
	(Power Failure Checkable)
Monitoring	Two independent Watchdog (Reliable Hardware Watchdog + Software Watchdog)
Recovery	Auto-Reboot By Watchdog
	Automatic Database Recovery
Sensor Input	9 Ports / NC or NO
	Non-isolated TTL input
	Ground Common
Alarm Output	8 Ports / NC or NO (optional)
	Isolated Relay Output
	Four Isolated Common
Motion Detection	Available for each camera
	Multi Detection Level
Video Input	BNC 9 Ports
Loop Through output	BNC 9 Ports
Audio Input (mono)	RCA 4 Ports
MIC Input	Mini Stereo Jack
Audio Output (mono)	Line Output, Mini Stereo Jack
Main TV Output	RCA
S-VIDEO (Main TV)	4 pin Mini DIN
Spot Monitor Output	BNC
Sensor Input	12 pin Terminal block x 2
	(Include Ground Common 4 Pin)
Alarm Output	12 pin Terminal block
	(Include Isolated Common 4 Pin)
PTZ (RS-485)	2 Pin Terminal Block, Half Duplex
Ethernet	RJ-45, 10/100Mbps
USB2.0	Front 1 port, Rear 2 ports
VGA Output	15 pin female DSUB
Power Source	115 ~ 230VAC (47 ~ 63Hz)
Power Consumption	TBD (Appx.230 Watt)
Operating Temp.	+5 ~ +40 C
Storage Temp.	-5 ~ +60 C
Humidity	30 ~ 80%RH(non-condensing)
Color	Black 6U (Pantone Color)
Dimension	431(W) x 88(H) x 440(D) mm
Weight	Appx. 14 kg, Include Single HDD

**PRO-Series Linux Embedded  
PLE1202709 (9 Channel)**

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# Cascadia

Creating Remote Possibilities™

**16 Channel DVRT**  
**120 IPS Record / 480 IPS Display**  
**w/ 4 Channels Audio**  
**16 Alarm Inputs & 8 Relay Outputs**



**PLE12048016**

Model	PLE12048016
Video Input	16 Channel
Loop Through Output	16 Channel
Input Level	1.0Vp-p +/-10% Composite, 75 Ω Unbalanced
Video Standard	NTSC / PAL
Main TV Output	Multi-Screen VGA
Spot TV Output	Spot 1= Quad, Spot 2 = Quad, Main Spot = 1 Camera
Display Resolution	720x480 / 720x576 (NTSC / PAL)
Display (Frames per Second)	480 fps
Camera Name	Max. 22 Characters
Screen Split Control	1 / 4 / 9 / 16 Screen
Screen Rotate Control	1 ~ 600 seconds (10 Minutes)
Image Control	Contrast, Bright, Saturation, Hue.
Compression	ADPCM / 8khz Mono / 32Kbps
Input Channel	16 Channel
Input Level	TBD (0.5 ~ 1.4Vp-p @ 20 Ω)
Live Output	1 Channel
Compression	Hardware MPEG-IV
Resolution (pixels)	NTSC: 352 X 240 / 704 X 240 / 704 X 480
Image size	1 ~ 3 kbytes/frame @ 352 X 240 (CIF)
	2 ~ 6 kbytes/frame @ 704 X 240 (HALF VGA)
	4 ~ 12 kbytes/frame @ 704 X 480 (VGA)
Maximum Recoding Speed (NTSC)	120 fps @352X240
	60 fps @ 704X240
	30 fps @ 704X480
Mode	Continuous / Scheduled / Motion Detection / Sensor Event
Scheduling	Weekly Scheduling by one hour
Alarm Duration	0 ~ 600 seconds (10 minutes), Continues
Internal EIDE Storage	Internal 2 Hard Drives
External EIDE Storage	Max. 6 HDD (500GB x 6HDD = 3.0TB)
Water Marking	Support (Exported Image Only)
Summer Time	Support
Client Software	Web (Live, Search and PTZ), CTMS Option (Multiple DVR's)
Dimensions H x W x D (mm)	88 x 431 x 440

**PRO-Series Linux Embedded**  
**PLE12048016 (16 Channel)**

**Two Year Warranty**

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Model	PLE12048016 (cont)
Searching Method	Date / Time / Blank / Smart Search
Date/Time Search	Selectable on Map and Calendar
Event Search	Search Events for Video
Smart Search	Motion search by user define (Sherlock Search)
Blank Search	Search 3 sec or more blank term
Monitoring Environment	Client S/W, Central Monitoring System, Web
Display	Appx. 16ch Full Motion Transmission
	Max. 16ch Real-time Transmission
	(Appx. 4 clients accessible)
Search	Supporting Multi. Client
	(Appx. 1 clients accessible)
System Logging	System Logging
	(Power Failure Checkable)
Monitoring	Two independent Watchdog (Reliable Hardware Watchdog + Software Watchdog)
Recovery	Auto-Reboot By Watchdog
	Automatic Database Recovery
Sensor Input	16 Ports / NC or NO
	Non-isolated TTL input
	Ground Common
Alarm Output	8 Ports / NC or NO (optional)
	Isolated Relay Output
	Four Isolated Common
Motion Detection	Available for each camera
	Multi Detection Level
Video Input	BNC 16 Ports
Loop Through output	BNC 16 Ports
Audio Input (mono)	RCA 4 Ports
MIC Input	Mini Stereo Jack
Audio Output (mono)	Line Output, Mini Stereo Jack
Main TV Output	RCA
S-VIDEO (Main TV)	4 pin Mini DIN
Spot Monitor Output	BNC
Sensor Input	12 pin Terminal block x 2
	(Include Ground Common 4 Pin)
Alarm Output	12 pin Terminal block
	(Include Isolated Common 4 Pin)
PTZ (RS-485)	2 Pin Terminal Block, Half Duplex
Ethernet	RJ-45, 10/100Mbps
USB2.0	Front 1 port, Rear 2 ports
VGA Output	15 pin female DSUB
Power Source	115 ~ 230VAC (47 ~ 63Hz)
Power Consumption	TBD (Appx.230 Watt)
Operating Temp.	+5 ~ +40 C
Storage Temp.	-5 ~ +60 C
Humidity	30 ~ 80%RH(non-condensing)
Color	Black 6U (Pantone Color)
Dimension	431(W) x 88(H) x 440(D) mm
Weight	Appx. 14 kg, Include Single HDD

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**PLE12048016 (16 Channel)**

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# Cascadia

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**16 Channel DVRT**  
**240 IPS Record / 480 IPS Display**  
**w/ 4 Channels Audio**  
**16 Alarm Inputs & 8 Relay Outputs**



**PLE24048016**

Model	PLE24048016
Video Input	16 Channel
Loop Through Output	16 Channel
Input Level	1.0Vp-p +/-10% Composite, 75 Ω Unbalanced
Video Standard	NTSC / PAL
Main TV Output	Multi-Screen VGA
Spot TV Output	Spot 1= Quad, Spot 2 = Quad, Main Spot = 1 Camera
Display Resolution	720x480 / 720x576 (NTSC / PAL)
Display (Frames per Second)	480 fps
Camera Name	Max. 22 Characters
Screen Split Control	1 / 4 / 9 / 16 Screen
Screen Rotate Control	1 ~ 600 seconds (10 Minutes)
Image Control	Contrast, Bright, Saturation, Hue.
Compression	ADPCM / 8khz Mono / 32Kbps
Input Channel	16 Channel
Input Level	TBD (0.5 ~ 1.4Vp-p @ 20 Ω)
Live Output	1 Channel
Compression	Hardware MPEG-IV
Resolution (pixels)	NTSC: 352 X 240 / 704 X 240 / 704 X 480
Image size	1 ~ 3 kbytes/frame @ 352 X 240 (CIF)
	2 ~ 6 kbytes/frame @ 704 X 240 (HALF VGA)
	4 ~ 12 kbytes/frame @ 704 X 480 (VGA)
Maximum Recoding Speed (NTSC)	240 fps @352X240
	120 fps @ 704X240
	60 fps @ 704X480
Mode	Continuous / Scheduled / Motion Detection / Sensor Event
Scheduling	Weekly Scheduling by one hour
Alarm Duration	0 ~ 600 seconds (10 minutes), Continues
Internal EIDE Storage	Internal 2 Hard Drives
External EIDE Storage	Max. 6 HDD (500GB x 6HDD = 3.0TB)
Water Marking	Support (Exported Image Only)
Summer Time	Support
Client Software	Web (Live, Search and PTZ), CTMS Option (Multiple DVR's)
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**PLE24048016 (16 Channel)**

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System Logging	System Logging
	(Power Failure Checkable)
Monitoring	Two independent Watchdog (Reliable Hardware Watchdog + Software Watchdog)
Recovery	Auto-Reboot By Watchdog
	Automatic Database Recovery
Sensor Input	16 Ports / NC or NO
	Non-isolated TTL input
	Ground Common
Alarm Output	8 Ports / NC or NO (optional)
	Isolated Relay Output
	Four Isolated Common
Motion Detection	Available for each camera
	Multi Detection Level
Video Input	BNC 16 Ports
Loop Through output	BNC 16 Ports
Audio Input (mono)	RCA 4 Ports
MIC Input	Mini Stereo Jack
Audio Output (mono)	Line Output, Mini Stereo Jack
Main TV Output	RCA
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Sensor Input	12 pin Terminal block x 2
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Humidity	30 ~ 80%RH(non-condensing)
Color	Black 6U (Pantone Color)
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