

				
model	LIN104M-120		LIN108M-240	LIN116M-480
system				
total channel numbers	4 channels		8 channels	16 channels
camera inputs (analog)	4 BNC connectors		8 BNC connectors	16 BNC connectors
max IP camera inputs	4		4	4
loop outputs (analog)	no		no	no
composite video signal	1 Vpp, 75 Ohm		1 Vpp, 75 Ohm	1 Vpp, 75 Ohm
performance				
recording (analog)	compression	H.264	H.264	H.264
	resolution	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1) PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1) PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1) PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)
	frame rate	CIF (NTSC/PAL): 120/100fps Half-D1 (NTSC/PAL): 120/100fps D1 (NTSC/PAL): 60/50fps	CIF (NTSC/PAL): 240/200fps Half-D1 (NTSC/PAL): 120/100fps D1 (NTSC/PAL): 60/50fps	CIF (NTSC/PAL): 480/400fps Half-D1 (NTSC/PAL): 240/200fps D1 (NTSC/PAL): 120/100fps
	frame rate per channel	NTSC: 0~30fps PAL: 0~25fps	NTSC: 0~30fps PAL: 0~25fps	NTSC: 0~30fps PAL: 0~25fps
recording (IP)	resolution	up to 1.3 megapixels with H.264/MPEG4/MJPEG format on the first 4 channels and 2.3 megapixels with MJPEG format on the 1st channel	up to 1.3 megapixels with H.264/MPEG4/MJPEG format on the first 4 channels and 2.3 megapixels with MJPEG format on the 1st channel	up to 1.3 megapixels with H.264/MPEG4/MJPEG format on the first 4 channels and 2.3 megapixels with MJPEG format on the 1st channel
	frame rate per channel	NTSC: 1~30fps PAL: 1~25fps	NTSC: 1~30fps PAL: 1~25fps	PAL: 1~25fps
display (analog)	frame rate	NTSC: 120fps PAL: 100fps	NTSC: 240fps PAL: 200fps	NTSC: 480fps PAL: 400fps
storage	Internal HDD capacity	supports up to 1 SATA HDD	supports up to 1 SATA HDD	supports up to 1 SATA HDD
	external HDD	supports 1 external e-SATA HDD (up to 2TB)	supports 1 external e-SATA HDD (up to 2TB)	supports 1 external e-SATA HDD or RAID (up to 2TB)
	iSCSI	no	no	no
interface				
monitors	VGA outputs	1 (1024 x 768) (skip)	1 (1024 x 768) (skip)	1 (1024 x 768) (skip)
	SPOT monitor outputs	1 SPOT output (full screen output from alerted analog cameras) 1 TV output (full screen output same as VGA video)	1 SPOT output (full screen output from alerted analog cameras) 1 TV output (full screen output same as VGA video)	1 SPOT output (full screen output from alerted analog cameras) 1 TV output (full screen output same as VGA video)
	audio	inputs	4-CH line-in, 8 KHz sampling rate	4 line-in, 8 KHz sampling rate
MIC	outputs	1-CH line-out	1 line-out	1 line-out
alarm	inputs	no	no	no
	sensor (alarm) inputs	4 input voltage: max. 6 VDC 1 (NO / NC)	4 input voltage: max. 6 VDC 1 (NO / NC)	4 input voltage: max. 6 VDC 1 (NO / NC)
	relay outputs	voltage range: 125VAC / 30 VDC. switching current: max. 1A	voltage range: 125VAC / 30 VDC. switching current: max. 1A	voltage range: 125VAC / 30 VDC. switching current: max. 1A
network	ethernet (RJ-45)	1 port (10/100Base-T)	1 port (10/100Base-T)	1 port (10/100/1000Base-T)
backup	DVD writer	no	no	no
connections	e-SATA	1 port	1 port	1 port
	RS-232	1 (D-sub 9 pins, male)	1 (D-sub 9 pins, male)	1 (D-sub 9 pins, male)
	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)	1 set (Tx+, Tx-, Rx+, Rx-)	1 set (Tx+, Tx-, Rx+, Rx-)
	USB 2.0	2 ports on front panel	2 ports on front panel	2 ports on front panel
control	front key pad	no	no	no
	LCD display	no	no	no
general				
electrical	power input	24W power adaptor, 12V DC	24W power adaptor, 12V DC	48W power adaptor, 12V DC
	typical power consumption	approx. 13.61W (with 1 HDD)	approx. 13.61W (with 1 HDD)	approx. 27W (with 1 HDD)
	power consumption	max. 24W (with 1 HDD)	max. 24W (with 1 HDD)	approx. 36W (with 1 HDD)
environmental	operating temperature	0 °C to 40 °C (32 ° to 104 °F)	0 °C to 40 °C (32 ° to 104 °F)	0 °C to 40 °C (32 ° to 104 °F)
	storage temperature	-30 °C to 60 °C (-22 °F to 140 °F)	-30 °C to 60 °C (-22 °F to 140 °F)	-30 °C to 60 °C (-22 °F to 140 °F)
	operating humidity	90% RH	90% RH	90% RH
mechanical	humidity in storage	90% RH	90% RH	90% RH
	dimensions (W x H x D)	245 x 50 x 160 mm	245 x 50 x 160 mm	245 x 50 x 160 mm
weight (net)	0.8kg		0.8kg	0.8kg
functions (local)				
operator interface	USB mouse, USB PC keyboard, remote controller(supports optional IR extension cable)		USB mouse, USB PC keyboard, remote controller (supports optional IR extension cable)	USB mouse, USB PC keyboard, remote controller (supports optional IR extension cable), System Controller Pro
dual-monitor output	no		no	no
IP camera auto search	yes		yes	yes
recording modes	continuous recording / smart recording / motion recording / alarm recording / manual recording; all modes can be triggered by schedule		continuous recording / smart recording / motion recording / alarm recording / manual recording; all modes can be triggered by schedule	continuous recording / smart recording / motion recording / alarm recording / manual recording; all modes can be triggered by schedule
de-interlace options	NA		NA	optimized for dynamic or static camera scenes
2-way audio	no		no	no
motion detection	detects any kind of movements within the camera focus		detects any kind of movements within the camera focus	detects any kind of movements within the camera focus
privacy protection	no		no	no
object detection	no		no	no
E-map function	8 maps, show the positions of cameras, sensors, relays and triggered status		8 maps, show the positions of cameras, sensors, relays and triggered status	8 maps, show the positions of cameras, sensors, relays and triggered status
Attention Please	no		no	no
PTZ control	direction, focus, zoom, speed, preset, group, autopan		direction, focus, zoom, speed, preset, group, autopan	direction, focus, zoom, speed, preset, group, autopan
PTZ protocol	Pelco-D, Pelco-P, Dynacolor, Lilin, CD55, DiGiDome, Yoko, Micro Jack-P, Cannon (VC-C4R), Panasonic (CS850/CW860), Samsung (SCC-641), JVC (TK-676/TK-675), Sony (EVI-D70P), Philips (TC8560/TC700), ELMOP (PTC-200C), Fastrax II (HID-2404), AmericanDynamics_UltraS, DMP23-H2, MD101, Sony (15-CZ45-1), D-Max, Panasonic (CS950), Lilin (PIH7622), EyeViewer (V2/T2), LG, Kalatel, Vicon, Ikegami (PCS-38), Pelco (Promelit)		Pelco-D, Pelco-P, Dynacolor, Lilin, CD55, DiGiDome, Yoko, Micro Jack-P, Cannon (VC-C4R), Panasonic (CS850/CW860), Samsung (SCC-641), JVC (TK-676/TK-675), Sony (EVI-D70P), Philips (TC8560/TC700), ELMOP (PTC-200C), Fastrax II (HID-2404), AmericanDynamics_UltraS, DMP23-H2, MD101, Sony (15-CZ45-1), D-Max, Panasonic (CS950), Lilin (PIH7622), EyeViewer (V2/T2), LG, Kalatel, Vicon, Ikegami (PCS-38), Pelco (Promelit)	Pelco-D, Pelco-P, Dynacolor, Lilin, CD55, DiGiDome, Yoko, Micro Jack-P, Cannon (VC-C4R), Panasonic (CS850/CW860), Samsung (SCC-641), JVC (TK-676/TK-675), Sony (EVI-D70P), Philips (TC8560/TC700), ELMOP (PTC-200C), Fastrax II (HID-2404), AmericanDynamics_UltraS, DMP23-H2, MD101, Sony (15-CZ45-1), D-Max, Panasonic (CS950), Lilin (PIH7622), EyeViewer (V2/T2), LG, Kalatel, Vicon, Ikegami (PCS-38), Pelco (Promelit)
PTZ tracking	no		no	no
intelligent search	no		no	no
event search	by date/time/camera/event/log file		by date/time/camera/event/log file	by date/time/camera/event/log file
visual search	no		no	no
FaceFinder	no		no	no
bookmark	easily save links to particular locations of recorded data and play them directly from the saved links		easily save links to particular locations of recorded data and play them directly from the saved links	easily save links to particular locations of recorded data and play them directly from the saved links
watermark	embedded watermark at output clip file		embedded watermark at output clip file	embedded watermark at output clip file
POS integration	compatible with most commonly used POS system / easy to add POS protocol / Change font color / freely channel mapping (Data Box required)		compatible with most commonly used POS system / easy to add POS protocol / Change font color / freely channel mapping (Data Box required)	compatible with most commonly used POS system / easy to add POS protocol / Change font color / freely channel mapping (Data Box required)
POS connection	2		2	5
iPOS	no		no	no
advanced event log viewer	details complete event logs according to your selection on event, operation, POS, system and network events.		details complete event logs according to your selection on event, operation, POS, system and network events.	details complete event logs according to your selection on event, operation, POS, system and network events.

alarm setting	32 alarms	32 alarms	32 alarms
alarm triggered mode	single event or multiple events as alarm trigger conditions: video loss / motion detection / sensor input / abnormal event / HDD fail	single event or multiple events as alarm trigger conditions: video loss / motion detection / sensor input / abnormal event / HDD fail	single event or multiple events as alarm trigger conditions: video loss / motion detection / sensor input / abnormal event / HDD fail
smart alert functions	launch E-map / 1-cam display / Email /PTZ preset point tracking / start recording / relay output/ enlarge camera view / send video to CMS	launch E-map / 1-cam display / Email /PTZ preset point tracking / start recording / relay output/ enlarge camera view / send video to CMS	launch E-map / 1-cam display / Email /PTZ preset point tracking / start recording / relay output/ enlarge camera view / send video to CMS / Play warning sound
user accounts	32	32	32
DDNS	allows remote clients to search dynamic servers without enquiring for server's IP address	allow remote clients to search dynamic servers without enquiring for server's IP address	Allow remote clients to search dynamic servers without enquiring for server's IP address
network storage extension	no	no	no
functions (remote)			
central management	CMS central management system to support up to 1,000 DVRs	CMS central management system to support up to 1,000 DVRs	CMS central management system to support up to 1,000 DVRs
remote access	WebViewer, Remote Console, JavaViewer, iPhoneViewer, Android, BBViewer, SmartViewer	WebViewer, Remote Console, JavaViewer, iPhoneViewer, Android, BBViewer, SmartViewer	WebViewer, Remote Console, JavaViewer, iPhoneViewer, Android, BBViewer, SmartViewer
remote setup	change server setting remotely	change server setting remotely	change server setting remotely
remote backup	schedule or manual backup remotely	schedule or manual backup remotely	schedule or manual backup remotely
Dispatch Server	share transmission loading; enable more clients at remote access & high-speed data transmission.	share transmission loading; enable more clients at remote access & high-speed data transmission.	share transmission loading; enable more clients at remote access & high-speed data transmission.
iPhone Viewer	free download from App Store (Luxon Viewer)	free download from App Store (Luxon Viewer)	free download from App Store (Luxon Viewer)
Android Viewer	free download from Android Market (Luxon Viewer)	free download from Android Market (Luxon Viewer)	free download from Android Market (Luxon Viewer)
BBViewer	live view, PTZ control	live view, PTZ control	live view, PTZ control
iEnhance	enhance video quality such as Brightness/Contrast/Hue/ Saturation/Sharpness/Noise Reduction/De-interlace/Gray Scale of recorded data	enhance video quality such as Brightness/Contrast/Hue/ Saturation/Sharpness/Noise Reduction/De-interlace/Gray Scale of recorded data	enhance video quality such as Brightness/Contrast/Hue/ Saturation/Sharpness/Noise Reduction/De-interlace/Gray Scale of recorded data
iStable	fix shaking and jolts impact on video with just one click.	fix shaking and jolts impact on video with just one click.	fix shaking and jolts impact on video with just one click.

Megapixel per Channel Limitations

	LIN104/108M		LIN116M	
	MJPEG	H.264	MJPEG	H.264
CH1	2.3MP	1.3MP	5M	1.3M
CH2	1.3MP	1.3MP	2.3M	1.3M
CH3	1.3MP	1.3MP	2.3M	1.3M
CH4	1.3MP	1.3MP	2.3M	1.3M

Note:
ONVIF comes up as a camera option but has not been written in