

Model			TWAST		
			TWAST04	TWAST08	TWAST16
Video	Camera input		4 BNC	8 BNC	16 BNC
	Individual HD/Analog		Analog, AHD, TVI, CVI, IP		
	Available source		TVI/AHD/CVI 720p25,30/1080p25,30/3MP@18~30/4MP@12~30/5MP@20/ 8MP@15 (only 1ch) Composite/960H/Mixed	TVI/AHD/CVI 720p25,30/1080p25,30/3MP@18~30/4MP@12~30/5MP@20/ 8MP@15 Composite/960H/Mixed	
	IP Camera	Spec	ONVIF 2.3, RTSP, H.264, H.265, dual stream use gigabit ethernet hub		
		Num	4	8	16
		Resolution	~ 5MP@30	~ 4K@30	
		Restriction	Cannot setup Private ZONE Cannot support Timestamp		
	Output		1 HDMI (Main Display, ~UHD@30) 1 VGA (Main Display, ~1080p60) 1 Composite (Programmable SPOT)	1 HDMI (Main Display or Programmable HD Spot, ~UHD@60) 1 VGA (Main Display or Programmable HD Spot, ~1080p60) 1 Composite (Programmable SPOT)	
Audio	Audio input		4 RCA	8 RCA	16 (4 RCA + 12 DB15)
	Output		1 RCA		
Sensor In			4 (NC, NO selectable)	8 (NC, NO selectable)	16 (NC, NO selectable)
Alarm out			1 relay		
Operating System			Embedded Linux OS		
Display	Speed		Real Time		
	Resolution (Pixel)		1280X1024, 1280X720, 1920X1080, 4M, UHD		
	Split screen		1,4	1,4,6,8,9	1,4,6,8,9,13,16
Main Recording	CODEC		H.265		
	Resolution (Pixel)		8MP : 8MP, 1080p 5MP : 5MP, 720p 4MP : 4MP, 720p 3MP : 3MP, 720p		
	Picture quality		4 steps (Super, High, Medium, Low)		
	Speed		60fps @ 4MP	120fps @ 4MP	240fps @ 4MP
Dual Recording	CODEC		H.265		
	Resolution (Pixel)		X	640x352	640x352
Playback	Display		1,4	1,4,6,8,9	1,4,6,8,9,13,16
	Search mode		Calendar, Event ,POS , Panorama, Thumbnail		
	Speed		60fps @ 4MP	120fps	240fps
	Fast/Slow speed		Normal, REW & FF [recorded speed x2, x4, x8, x16,x32,x64,x1/2,x1/4], Frame to frame, Pause		

Network (Individual setting of resolution, frame rates and picture quality)	Network Interface	Megabit Ethernet		Gigabit Ethernet	
	High Resolution (Pixel)	same as Main Recording			
	Low Resolution (Pixel)	720, 1080p, 3MP, 4MP, 5MP, 8MP : 480x256 960H, Composite : CIF			
	Speed	40fps @ 1080p	70fps @ 1080p	140fps @ 1080p	
	Protocol	TCP/IP, HTTP, DHCP			
	Application	Windows 7 / 8 / 10 (PC Client system& IE)/MAC			
	Web Browser	Internet Explorer, Safari, Chrome, Firefox			
	Smart phone App	Android, iPhone for live and search			
Backup	Interface	USB 2.0 X 2			
	Backup device	External HDD, CD&DVD-RW, Network, Thumb Drive			
The number of HDD		1 SATA(No capacity limit ; 8TB of more)		2 SATA + 1 ESATA (No capacity limit ; 8TB of more)	
Function		•Full GUI with alpha blending			
		•Individual setting of resolution, frame rates and picture quality			
		•Instant Replay			
		•Digital Zoom			
		•Mouse Control			
		•Weekly scheduler with holiday by 10 minutes setting			
		•Covert, Disable and Private function of cameras			
		•Motion Detection with 576 area setting			
		•Relay alarm output			
		•PTZ control by RS-485			
		•Daylight Saving Time and Network Time Setting			
		•Multi User Authority up to 8 Users			
		•Deinterlacer upon live and playback			
		•22 languages with full graphic			
		•Individual Network port setting			
		•Auto Deletion			
		•Import and Export the configuration			
		•Interactive setup via network			
		•POS Interface			
		•No Mirroring			•Mirroring
Others		•Dual CODEC engine for independent video transmission			
		Power Consumption		24W	60W
		Operating Temperature		5 ~40°C(41~104F)	
		Relative Humidity		Maximum 80% non-condensing	
Dimension		300(W)×210(D)×48(H) mm		380(W)×340(D)×50(H) mm	