

TURBOHD HD-TVI Technology

TurboHD is HD-TVI, the latest in high-definition analog technology, delivering significant advantages over other HD analog formats. Ideal for supporting the move away from legacy analog to HD video, Hikvision's analog-to-digital migration solution enables users to utilize existing infrastructure, maximizing the ROI on their video surveillance equipment.



Unparalleled Performance, Amazing Price.

With tried and true analog installation methods and an attractive price point, the TurboHD solution represents an ideal migration path.

TurboHD Analog Camera - 720p					
	Outdoor Bullet	Outdoor Turret		Outdoor Bullet	Outdoor Dome
	DS-2CE16C2T-IR	DS-2CE56C2T-IRM	DS-2CE56C5T-VFIT3	DS-2CE16C5T-AVFIR3	DS-2CE56C5T-AVPIR3
Model					
Video Out	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR
Lens	2.8 mm @ f/2.5 (3.6 mm option)	2.8 mm @ f/2.5 (3.6 mm option)	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	97.3°, (2.8 mm), 78° (3.6 mm)	97.3°, (2.8 mm), 78° (3.6 mm)	92° to 29.3°	92° to 29.3°	92° to 29.3°
Pan/Tilt/Rotation	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 355°/ 0° to 90°/0° to 355°	3-Axis Positioning	0° to 355°/ 0° to 80°±90°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/Digital	Yes/Digital	No/Digital
IR Range (meters)	Up to 20	Up to 20	Up to 50	40	40
Max. Image Resolution (pixels)	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	No	No	Yes	Yes	Yes
Other features	IP66	IP66	IP66	IP66	IP66/IK10
Operating Conditions (max.)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, 4 W	12 VDC, 4 W	12 VDC, 6 W	12 VDC, 4.5 W	12 VDC, 3.5 W 24 VAC: 4.5 W



TurboHD Analog Camera - 1080p									
	Outdoor Bullet	Outdoor Dome	Outdoor Bullet	Outdoor Dome		Outdoor Bullet	Outdoor Turret	Outdoor Bullet	Outdoor Turret
Model	DS-2CE16D1T-IR	DS-2CE56D1T-VPIR	DS-2CE16D1T-AVFIR3	DS-2CE56D1T-AVPIR3	DS-2CE56D5T-AVPIR3	DS-2CE16D5T-IT3	DS-2CE56D5T-IT3	DS-2CE16D5T-AVFIT3	DS-2CE56D5T-VFIT3
									
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS-(Dual)	HD-TVI/CVBS (Dual)	HDTVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8mm)	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 0 with IR	Color: 0.01 @ f/1.2 0 with IR	Color: 0.14 @ f/1.2 0 with IR	Color: 0.01 @ f/1.2 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 mm, 3.6 mm, 6 mm option	2.8 mm, 3.6 mm, 6 mm option	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm option)	3.6 mm @ f/2.5 2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.2° to 32.8°	105.2° to 32.8°	103° to 32.1°	82.6° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.4° (12 mm)	82.6° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.4° (12 mm)	103° to 32.1°	103° to 32.1°
Pan/Tilt/Rotation	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 355°/ 0° to 90°/0° to 355°	0° to 355°/ 0° to 80°/±90°	---	0° to 360°/ 0° to 90°/0° to 360°	3-Axis Positioning	0° to 360°/ 0° to 90°/0° to 360°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/No	Yes/No	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range (meters)	20	20	40	40	Up to 40	40	40	50	50
Max. Image Resolution (pixels)	1920 x 1080	1930 x 1088	1930 x 1088	1930 x 1088	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other features	IP66	IP66	IP66	IP66/IK10	IP66/IK10	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 6W	12 VDC, 24 VAC, 4 W	12 VDC, 4 W 24 VAC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 7 W 24 VAC, 8.5 W	12 VDC, 7 W

