

1. c25 Hemispheric Indoor Ceiling Camera With 180° Lens (L12)



360° Panorama View Camera For Rooms With Suspended Ceilings

With a **diameter of only 12 centimeters** and a weight of approximately **200 grams**, the new c25 is the smallest and lightest Hemispheric MOBOTIX video complete system yet for ceiling mounting indoors (protection class IP20, 0 to 40 °C/32 to 104 °F). Standard features include a light-sensitive 5-MP day or night sensor, a 4-GB MicroSD memory card (can currently be expanded up to 128 GB), an HD sound microphone and the latest camera software **including** MxActivitySensor and the **MxAnalytics video analysis tools** (person and object counting, heat map display of high-traffic areas). The integrated **Lowlight Exposure Optimization MxLEO** facilitates high-contrast images without motion blur, even in poorly illuminated surroundings.

Hemispheric HD Premium Lens L12 With An f/2.0 Aperture

A particularly high-quality fisheye lens with a 180° image angle that has been developed especially for MOBOTIX is used in all current Hemispheric MOBOTIX camera models. This L12 lens meets the extremely high MOBOTIX quality standards and seamlessly integrates into the “HD Premium Lenses with an f/1.8 Aperture” product line that was officially launched at the beginning of 2015. The L12 aperture of f/2.0 is optimally adapted to the hemispheric special lens.

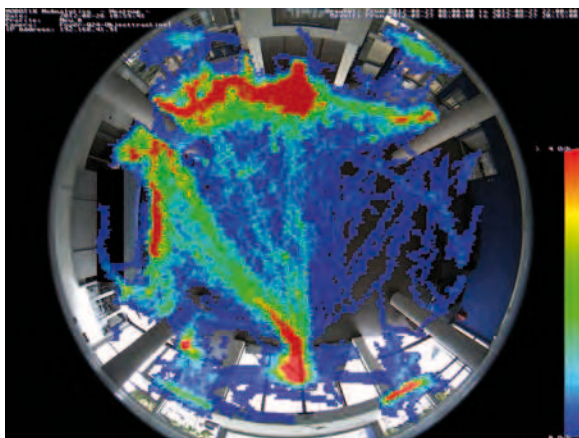


The Latest MOBOTIX Panorama Image Technology

The c25 delivers images up to 5 MP with an extremely high level of detail. Thanks to the panorama technology developed by MOBOTIX, one single camera can discreetly secure an entire room without any blind spots. This ensures a better overview than several individual cameras, while still offering the possibility to zoom in on details. This significantly reduces the total cost and number of cameras required.

Unlike conventional technology available on the market, hemispheric distortion correction in a MOBOTIX

system takes place in the camera and not later on the computer with separate video management software. This drastically reduces the image data that needs to be transferred and saved. This decentralized MOBOTIX solution lowers the volume of network traffic and allows dozens of hemispheric cameras to be displayed on a computer, tablet or smartphone.



Standard On The c25: MxAnalytics

The camera-integrated MxAnalytics video analysis makes it possible to collect statistical behavioral data from people and objects. This is done by defining recognition zones and counting corridors. The camera then records how often each counting corridor is crossed within a specified period. The most frequented areas in the recognition zone are highlighted in color as a heat map (see figure).

All the necessary information on MxAnalytics is provided in the **Compact Guide: MxAnalytics**, available as a PDF file on the MOBOTIX website: www.mobotix.com > **Support** > **MX Media Library** > **Compact Guide**

Simple Installation In Suspended Ceilings

With the new c25, MOBOTIX offers an affordable Hemispheric camera specially designed for suspended ceilings in protected indoor areas. It is suitable for installation in ceiling panels with a maximum thickness of 26 millimeters, in which a circular opening with a diameter of 105 mm is cut using a standard power drill head. The c25 connected to the Ethernet cable is simply slotted in from below using raised spring clips. This fast mounting mechanism is already being used with the MOBOTIX HaloMount (S15D accessory) and recessed ceiling lighting.



Typical Application Areas For The c25:

Indoor applications in retail, supermarkets, public buildings, trade fair and exhibition spaces, hotels and recreation facilities, in residential buildings and for the surveillance of industrial production processes.



c25 – Highlights

	Discreet Hemispheric camera for ceiling mounting indoors (IP20, 0 to 40 °C/32 to 104 °F) for only €398
	With its extremely reliable and high-quality technical components, the camera is also perfect for continuous operation in professional applications (MTBF >80,000 hours)
	Comes standard with MxAnalytics video analysis tools (used, for instance, to display customer traffic flows in a showroom)
	Quick installation in suspended ceilings by simply mounting the camera using three spring clips
	When installed on the ceiling in the center of the room, one single c25 records a 360° panorama view of the entire space with no blind spots, thus replacing four conventional CCTV cameras
	The compact design ensures an inconspicuous appearance
	Image distortion correction is integrated into the image processing software that comes preinstalled in all MOBOTIX Hemispheric cameras, meaning that a PC or additional software is not required
	Particularly light-sensitive 5-megapixel sensor with the latest MOBOTIX image processing technology captures detailed, crisp images up to 2592 x 1944 pixels (compared to Full HD resolution of 1920 x 1080 pixels)
	Available with either day or night sensor (color or black/white lens) and perfectly suited to demanding indoor applications with poor lighting conditions
	Power supply via Ethernet cable (PoE IEEE 802.3af, class 2), low power consumption of typically only 4 W



c25 Hemispheric Indoor Ceiling Camera With L12 Fisheye Lens: Technical Data

Model versions	Day and night version with 5-MP color or black/white sensor, incl. microphone and 4 GB microSD card: - MX-c25-D12-PW and MX-c25-N12-PW (180° lens) - MX-c25-D23-PW-F1.8 and MX-c25-N23-PW-F1.8 (92° lens)
Operating conditions	Ambient temperature 0 to 40 °C (32 to 104 °F), protection class IP20 (protected from foreign bodies with diameters 12.5 mm or larger, not waterproof)
Designated use	Indoors • For installation in suspended ceilings only • Not for use in areas at risk of explosions
Diameter	120 mm (visible), 170 mm (with folded-out spring clips)
Depth, weight	51 mm, 212 g (camera without ETH cable)
Weight (camera without ETH cable)	201 g
Installation diameter	105 mm
Minimum installation depth	55 mm
Clamping range	1 mm to 26 mm (possible thickness of mounting surface/ceiling panel)
Image sensor	1/2.5" CMOS sensor, 5 MP (2592 x 1944), progressive scan

c25 Hemispheric Indoor Ceiling Camera With L12 Fisheye Lens: Technical Data

Minimum light sensitivity	Color sensor: 0.25 lux at 1/60 sec; 0.013 lux at 1 sec Black/white sensor: 0.05 lux at 1/60 sec; 0.0025 lux at 1 sec
Maximum image size	5 MP (2592 x 1944 pixels)
Maximum frame rates MxPEG (fps)	30@HD (1280 x 720), 30@MEGA, 15@QXGA, 10@5MP
Maximum frame rates MJPEG (fps)	15@HD (1280 x 720), 12@MEGA, 6@QXGA, 4@5MP
Lens options	- L12 fisheye with f/2.0 aperture • Image angle: 180° (horizontal) x 160° (vertical) - L23 super wide-angle with f/1.8 aperture • Image angle: 92° (horiz.) x 68° (vert.)
Controls	Two buttons, two status LEDs
Sound	Microphone, 16-bit/16 kHz (HD voice)
Image processing	MxLEO, backlight compensation, automatic white balance, image distortion correction, panorama correction
Image formats	Freely configurable format 4:3/8:3/16:9 • User-defined formats (image cropping, e.g., 5 MP, QXGA, full HD, MEGA)
Multi-streaming	Yes
PTZ	Digital pan/tilt/zoom, continuous 8x zoom
Intelligent video analysis	MxActivitySensor, video motion analysis, MxAnalytics (heat maps and counting corridor reports)
DVR	Via integrated MicroSD card • Externally on USB device • Externally on NAS (max. of 4 TB) • Separate live image feed and full image recording • MxFFS with archiving function • Pre- and post-alarm images • Automatic DVR surveillance including error notification
Alarm/event management	MxActivitySensor • Video motion analysis • Temperature sensor • Microphone sensor • Shock detector • Illumination sensor • Further sensors/IO via additional devices • Alarm notification via e-mail, FTP, VoIP
Video telephone	SIP client; c25 currently only available with microphone
Security	User/group management, SSL connection, IP address filter, IEEE 802.1x, intrusion detection, digital image signature, tamper detection
Protocols	IPv4, IPv6, HTTP, HTTPS, FTP, RTP, UDP, TCP, SNMP, SMTP, DHCP (client or server), NTP (client or server)
Interfaces	Ethernet (MxRJ45), MiniUSB • With optional MxBus/IO board with two additional signal outputs (available soon)
Power supply	PoE (IEEE 802.3af, class 2), typical power consumption of 4 W
Certifications	EMC (EN 55022, CISPR 22, EN 55024, EN 61000-6-1/2) • Further standards (FCC part 15 subpart B, CFR 47, AS/NZS 3548)
(Integrated) software functions	Digital zoom • Programmable exposure windows • Snapshot recording • Full feature recording (MxFFS archive, continuous recording, full image recording including sound) • Time and event control • Time tables including holidays • Web functions • Logo generator • Flexible event logic • Master/slave arming • Multiple time-controlled privacy zones • Remote alarm notification • Programming interface/HTTP API
MOBOTIX Video Management Software (VMS) available free of charge	MxCC, MxEasy, MOBOTIX App, MxMultiViewer (currently only available as beta version)
Accessories (available soon)	- MxBus/IO mounting board with two signal inputs/two signal outputs - c25 on-wall mounting set



c25 Hemispheric Camera Ordering Information:

Order number	EAN	Description	MSRP EUR	Available
MX-c25-D12-PW	4047438024273	Hemispheric IP indoor camera for ceiling mounting • Image sensor: 1/2.5" CMOS, 5 megapixel, color (day) • Fisheye lens: L12 Hemispheric (horizontal image angle of 180°) • Max. image size: 5 MP (2592 x 1944 pixels) • IP20, 0 to +40 °C (32 to 104 °F) • Internal DVR: 4-GB MicroSD • Integrated microphone • Temperature sensor, illumination sensor, movement sensor, MxActivitySensor, MxAnalytics • 0.5-m Ethernet patch cable • Interfaces: Ethernet 10/100 (RJ45), USB • Color: white	398	Available now
MX-c25-N12-PW	4047438024280	Hemispheric IP indoor camera for ceiling mounting • Image sensor: 1/2.5" CMOS, 5 megapixel, black/white (night) • Fisheye lens: L12 Hemispheric (horizontal image angle of 180°) • Max. image size: 5 MP (2592 x 1944 pixels) • IP20, 0 to +40 °C (32 to 104 °F) • Internal DVR: 4-GB MicroSD • Integrated microphone • Temperature sensor, illumination sensor, movement sensor, MxActivitySensor, MxAnalytics • 0.5-m Ethernet patch cable • Interfaces: Ethernet 10/100 (RJ45), USB • Color: white	398	Available now
MX-c25-D23-PW-F1.8	4047438025904	Hemispheric IP indoor camera for ceiling mounting • Image sensor: 1/2.5" CMOS, 5 megapixel, color (day) • HD Premium lens: L23 super wide-angle lens (f/1.8, horiz. image angle 92°) • Maximum image size: 5 MP (2592 x 1944 Pixel) • IP20, 0°C to +40°C • 4 GB microSD • Integrated microphone • Temperature sensor, illumination sensor, shock detector, MxActivitySensor, MxAnalytics • 0.5-m Ethernet patch cable • Interfaces: Ethernet 10/100 (RJ45), USB • Color: white	398	Available now
MX-c25-N23-PW-F1.8	4047438025911	Hemispheric IP indoor camera for ceiling mounting • Image sensor: 1/2.5" CMOS, 5 megapixel, black/white (night) • HD Premium lens: L23 super wide-angle lens (f/1.8, horiz. image angle 92°) • Maximum image size: 5 MP (2592 x 1944 Pixel) • IP20, 0°C to +40°C • 4 GB microSD • Integrated microphone • Temperature sensor, illumination sensor, shock detector, MxActivitySensor, MxAnalytics • 0.5-m Ethernet patch cable • Interfaces: Ethernet 10/100 (RJ45), USB • Color: white	398	Available now

