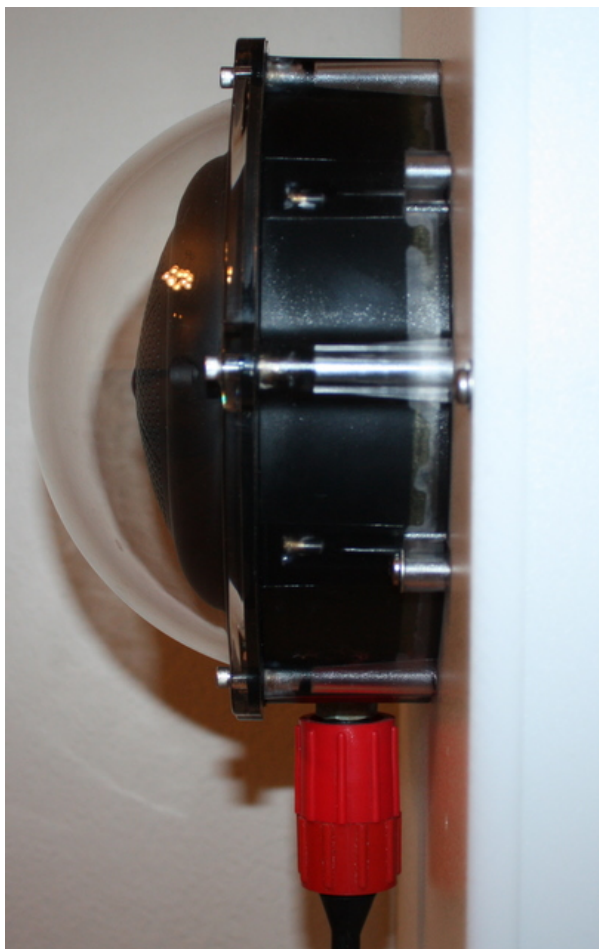




TBB-Q24UW

UNDERWATER NETWORK CAMERA

The Big Blue Technologies, Victoria, Canada, B.C.
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- Rated depth - 15 meters / 50 ft (deep water version coming soon)
- Housing's material - polycarbonate plastic
- Work environment - fresh and salt water, wide temperature ranges
- Resolution - 3 Mpx (2048 x 1536 pixels), hemispherical lens technology
- Electronics made by Mobotix AG, Germany, <http://www.mobotix.com>
- Industry's standard Subconn connectors and cables



Q24 Hemispheric

Highlights

- 3 Megapixel Hemispheric FixDome (IP65)
- Hemispheric Technology: 360° recording
- In-camera distortion correction
- Digital pan/tilt/zoom
- Integrated video motion recognition
- User-definable exposure fields
- In-camera recording to MicroSD
- IP telephony with video stream (H.263)
- Integrated microphone + loudspeaker
- Camera-controlled recording on Windows/Linux/Mac systems
- Power supply via Ethernet cable

Camera System high-resolution

- Fully digital color CMOS (2048 x 1536 pixels)
- 11 mm hemispheric lens (360° view)
- 22 mm super wide-angle lens (90° x 67° also available)

Exposure software-controlled

- Minimum and maximum exposure times can be set between 0.125 ms und 1 s - no aperture
- User-definable exposure window for optimum adjustment to the areas of interest
- Backlight compensation, automatic contrast control, night vision enhancement, white balance, sharpness

Image Format individually customizable

- Color image scalable from 2048 x 1536 to 160 x 120
- In-camera distortion correction
- Factory-preset view modes: Normal, Surround, Panorama, Panorama Focus, Double Panorama (with panorama correction)
- Selectable image formats (e.g., 1000 x 200 for skyline)
- Time-controlled masking of image areas

Image Memory included

- Internal 64 MB image memory capacities for approx. 300 3MEGA, 600 MEGA, 2,500 VGA, 4,000 CIF images
- MicroSD slot for memory expansion to 32 GB*
- Event and/or time-controlled recording
- Adjustable number of pre-alarm & post-alarm images

Q24M Hemispheric: 3.1 Megapixels (2048 x 1536)

The combination of a high-resolution 3 megapixel color sensor, an extremely wide-angle lens and an internal long-term storage (32 GB MicroSD card)* allow monitoring an entire room (10 m x 10 m) using only one single Q24 and saving the data as a high-resolution video sequence.

Thanks to the camera's integrated distortion correction feature, image data can be corrected for perspective either in real time or in subsequent research allowing it to be displayed in an especially user-friendly way. While the viewer is able to freely navigate through the entire distortion-corrected image (also in surround or panorama view) using the virtual PTZ function to closely analyze specific image areas, the camera will continue to monitor the entire room in the background.

The Q24 contains no mechanical moving parts and can be discreetly integrated into any environment thanks to its elegant design, compact size and wide range of mounting accessories. The Q24's weatherproof housing makes it suitable for outdoor use at temperatures ranging from -30°C to +60°C (-22°F to +140°F).

Recording camera-controlled

- Decentralized system concept reduces peripheral components and costs when recording
- Camera-controlled recording on Windows/Linux/Mac systems
- Camera manages ring buffer with up to 1 million alarms on the server (no additional software!)
- Adjustable ring buffer size and storage time
- MxPEG: optimized codec for network video
- Event/permanent recording (MxPEG/M-JPEG)
- Event-controlled frame rate from 0.2 to 30 Hz

Video Management browser-based

- Video streaming/administration via web browser
- Up to 30 cameras as MultiView in web browser
- 4 simultaneous web browser operating modes: HTML/JavaScript with M-JPEG, streaming (Java), ActiveX (MxPEG), PDA-optimized pages
- PDA interface with HTML only (Pocket PC)
- Event search by time, date, event type
- Software installation on PC not necessary
- Optional: Free of charge video management
 - MxControlCenter 2.1 (Windows)
 - MxEasy (Windows/Mac)

Administration via web interface

- Convenient administration via web browser
- User-definable FTP/e-mail/VoIP profiles
- User/group management
- User-definable access levels
- IP address filter, IEEE 802.1x, intrusion detection
- Secure access via HTTPS/SSL

Event Logic camera internal

- Event triggered by
 - motion in definable video sensor areas
 - temperature
 - exposure situation
 - IO contacts (via ExtIO expansion module)
 - audio level (via ExtIO expansion module)
 - network message (IP Notify)
 - definable time functions
- Logical linking of events
- Time-dependent event and standby control

Alarm Signaling included

- Visual/audio alarm notification
- Voice output via internal/external audio
- Custom voice messages can be recorded
- Notification via e-mail/FTP
- VoIP calling with Video SIP (also in browser)
- TCP/IP message on IP port

High-Quality Audio onboard

- Integrated 4 W loudspeaker with microphone
- IP telephony (SIP), cellular network via gateway
- IP voice announcement with DHCP
- Lip-synchronous audio recording (MxPEG)

Housing robust & maintenance free

- Fiberglass-reinf. and shock-resistant PBT, white
- Freely combinable with D22/D24 accessories: in-ceiling set, on-wall set, wall mount
- Vandalism housing available in two designs
- Dimensions: (Diameter x Height) 160 mm x 50 mm
- Weight: approx. 450 g

Power Supply PoE

- Power supply via Ethernet cable
- Power input 4.5 W
- No heater/motors, low UPS costs
- Variable PoE class based on operating mode: Depending on configuration: PoE class 1, 2 or 3

Characteristics

- CMOS image sensor
2048x1536 pixels (color)
- Color sensor sensitivity (22 mm/F2.0)
1 lux (1/60 s)–0.05 lux (1/1 s)
- Frame/data rate (MxPEG, medium quality)

30 fps	VGA (640x480)	1.5 Mbps
30 fps	TV PAL (704x576)	2.0 Mbps
30 fps	Mega (1280x960)	2.5 Mbps
20 fps	3MEGA (2048x1536)	3 Mbps
- Audio codec
64 KBit SIP (IP telephony)
- Temperature, weather protection
-30°C to +60°C (-22°F to +140°F), IP65

*4 GB MicroSD card is included in delivery

HiRes Video Innovations

The German company MOBOTIX AG is known as the leading pioneer in network camera technology and its decentralized concept has made high-resolution video systems cost efficient.

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Technical Data Q24 Hemispheric

Models	Basic, Sec	Virtual PTZ	Digital Pan/Tilt/Zoom, continuous 8x zoom
Lenses	L11 (hemispherical), L22 (90° x 67°)	Alarm/Events	Triggering of events by integrated multiple-window motion detection, temperature sensor, notification over email, FTP, IP-Telephony (VoIP, SIP), visual/acoustic alarm, pre- and post-alarm images
Sensitivity	Color: 1 lux (t=1/60 sec), 0.05 lux (t=1/1 sec)	Audio	Integrated microphone and speaker, lip-synchronous audio, two-way speaker, audio recording
Sensor	1/2" CMOS, progressive scan	Interfaces	Ethernet 10/100, USB
Max. image resolution	Color: 2048 x 1536 (3MEGA)	Video phone	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
Image format	Free image format selection (from 160x120 to 2048x1536) PTZ view, Quad view, panorama broad view image, double panorama view, panorama focus with 3 views	Security	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
Max frame rate (M-JPEG) (Live/Recording)	VGA: 22 fps, TV-PAL: 18 fps, Mega: 8 fps, 3MEGA: 4 fps	Certificates	BGV C 9; EMC: DIN EN 61000, DIN EN 50155 (shock, vibration, temperature), FCC part 15B; CE
Video stream (MxPEG) (Live/Recording/Audio)	VGA: 30 fps, TV-PAL: 30 fps, Mega: 30 fps, 3MEGA: 20 fps	Power supply	Power over Ethernet (IEEE 802.3af): PoE class variable depending on operating mode; power consumption; typ. 4.5 W; with PoE switch/MOBOTIX PoE adapter
Image compression	MxPEG, M-JPEG, JPG, H.263 (Video-VoIP-Telephony)	Operating conditions	IP65 (DIN EN 60529), -30° to +60 °C (-22°F to +140°F)
Internal DVR	MicroSD slot (camera-internal video recording up to 32GB)	Dimensions	Ø x H: 16 x 5 cm, Weight: ca. 450 g
External storage	Directly on NAS and PC/Server without additional recording software	Standard delivery	Housing (high-resistance composites - PBT-PC), white, incl. 360° lens, mounting parts, allen wrench, patch cable, manual, software, 4 GB MicroSD
Software (inclusive)	Video management software MxEasy, Control room software MxControlCenter 2.1		
Image processing	Backlight compensation, automatic white balance, image distortion correction (panorama image correction included), video sensor (motion detection)		