Teltonika WiMAX Camera

Teltonika WiMAX Camera encompasses a large number of environmental monitoring applications. WiMAX technology provides wide coverage in remote areas allowing transmitting high resolution video or single images wirelessly. The inherent support of Quality of Service (QoS) mechanisms allows differentiating bandwidth for time sensitive traffic to ensure required image quality.

Wireless Teltonika camera saves installation time as no wired cable installation is required on the clients' premises. The camera setup is done via a web browser. With the configured settings it may work automatically without host PC. The images can be acquired automatically with programmable period and/or upon external triggers such as motion sensors or door contacts. The video and single images can be viewed on a PC or a hand held device, and can also be transmitted by e-mail.

Simple installation and remote management allows user deploying the device easily on any operators WiMAX network.

Teltonika WiMAX Camera Highlights

- ♣ IEEE 802.16e Standard Compliant (Mobile WiMAX) (2.3-2.7 or 3.3-3.8 GHz)
- ♣ Video and/or single snapshot images
- ♣ JPEG/H.264 compression
- ♣ Image/Video recording to SD memory card
- ♣ Pre-alarm function (transmit/record video before sensor activity)
- ♣ Built-in Web server for monitoring via standard browser

Camera functions
Image Sensor: 1/3” Sony CCD matrix
Lens: C/CS mount

Supported resolution
D1 (720x576)
Half D1 (720x288)
CIF (352x288)
QCIF (176x144)

Framerate
up to 25 fps in all resolutions

Supported image/video compression format
H.264
JPEG

Images stored/recorded in
SD card inserted in camera (max card size 32 GB)
PC (HDD)

Image/video transmitting/recording
By scheduler
On motion detection
Alarm input (e.g. PIR sensor, door contact, etc)

Motion detection
4 areas with different sensitivity
Recording to SD card, e-mail and/or relay contacts triggering

OSD (On Screen Display)
Camera name
Date/Time
User defined text

Videomasking
Allows to mask out privacy zone

Video review
Via camera's WEB-interface
E-mail (single images, video clips)
Video streaming

Audio
Two-way audio transmission
Talk-back function

Time synchronization
Manual
Via PC
NTP Time-Server

Management
Firmware update

Electrical, Mechanical & Environmental:
Dimensions 370x125x120 mm.
Weight 1.5kg
12V DC, 1A
Temperature -10 ºC to +55 ºC
Humidity 10% to 90%

Other
Software to watch multiple cameras at once
Control of external equipment (relay contacts)

WiMAX Specifcations:

IEEE 802.16e-2005 Compliant (Mobile WiMAX)

WiMAX Wave 2 Compliant

2 Tx with Closed Loop Diversity

HARQ Category 7

MIMO Matrix A and B

Operates within:

2.3 – 2.4 GHz (MVC323P)

2.5 – 2.7 GHz (MVC325P)

3.3 – 3.6 GHz (MVC335P)

3.6 – 3.8 GHz (MVC338P)

Air Interface

S-OFDMA

Channel Bandwidth

3MHz, 3.5MHz, 5MHz, 6MHz, 7MHz, 8.5MHz 10MHz

Modulation Adaptive

QPSK, 16QAM, 64QAM

MIMO

MRC, Matrix A + MRC, Matrix B

Beamforming

All I/O Beamforming Items

RF Output Power

2x25 dBm @ 2.3-2.4GHz,

2x25 dBm @ 2.5-2.7GHz

2x23 dBm @ 3.3-3.5 GHz

2x23 dBm @ 3.3-3.8 GHz

RX Sensitivity

QPSK1/2: -99 @ 3.5 GHz and 10 MHz BW

16QAM1/2: -93.8 @ 3.5 GHz and 10 MHz BW

Antenna Gain

2 dBi

Antenna Type

External (2 x RP-SMA connectors)

Handover

Hard / Optimized Handover

QoS Mechanism

UGS, Real-Time-VR, Non Real-Time VR, Best Effort, ERT-VR

Authentication

EAP-TLS, EAP-TTLS-MSCHAPv2

Encryption

3 CCM-Mode 128-bit AES

Error Handling

HARQ UL and DL, up to Category 7

*** Depends on operator network configuration**

Teltonika reserves a right to modify the functionality of the device without any prior notice.