

## FRONTLINE COMMUNICATOR™

# Detailed Specifications

### Headset-Camera

#### General specifications:

- ▶ Adjustable headset
- ▶ Unidirectional microphone with noise reduction
- ▶ Integrated earphone with sound insulation system
- ▶ Patented stabilization system
- ▶ Weight: 102.4 g (3.6 oz)

#### Laser pointer:

- ▶ Laser safety: CDRH Class II, IEC Class 2 laser
- ▶ Power < 1 mW at 650 nm
- ▶ On / Off switch

#### High resolution color video camera:

- ▶ Picture elements: 510 (H) x 492 (V)
- ▶ Resolution: 330 lines
- ▶ Automatic exposure: 1/60 s to 1/15000 s
- ▶ Auto image: brightness, exposure, white balance
- ▶ Sensitivity: less than 3 lux

### Wireless transmitter

#### General specifications:

- ▶ Intel 520 MHz processor
- ▶ 64 MB Ram / 64 MB Flash memory
- ▶ Windows CE 5.0
- ▶ Real-time audio-video CODEC
- ▶ Two-way audio (full duplex)
- ▶ One way video
- ▶ Integrated viewer (320 x 240 QVGA video preview)
- ▶ Still frame capture and communication
- ▶ Images or video recording
- ▶ Integrated address book
- ▶ Call management
- ▶ System operational at 30 Kbps of bandwidth
- ▶ Weight: 699.3 g (24.7 oz)

#### Display:

- ▶ 10.2 cm (4") VGA (640 x 480)
- ▶ High resolution touch screen display
- ▶ 64K colors

#### Video features:

- ▶ Video encoder controls include: bit rate and video quality
- ▶ Automatic adjustment to available bandwidth
- ▶ Video encoder latency is 200 ms
- ▶ MPEG4 video encoder
- ▶ QVGA @ 15 fps video encoder
- ▶ QVGA @ 30 fps local video output (with audio)

#### Audio features:

- ▶ Proprietary vocal codec with voice detection
- ▶ Gives priority to audio over video when bandwidth is limited

#### Interface:

- ▶ Composite input / output (NTSC / PAL)
- ▶ S-Video input / output (NTSC / PAL)
- ▶ Audio input / output
- ▶ USB
- ▶ PCMCIA type I and II
- ▶ SDIO
- ▶ CF
- ▶ RS-232\*

#### Communication:

- ▶ IP communication
- ▶ WiFi certified
- ▶ WiFi 802.11b / 802.11g
- ▶ WiFi transmit power:
  - CCK: 18.9 dBm typical
  - OFDM: 15.5 dBm typical
- ▶ WiFi frequency range, operating channels:
  - North America: 2.412-2.462 GHz, channels 1 to 11
  - Europe ETSI: 2.412-2.472 GHz, channels 1 to 13
- ▶ All other communication cards compatible with WinCE (e.g. PCMCIA, CompactFlash, SDIO)
- ▶ Secure communication: 40/64 & 128-bit WEP encryption, TKIP, WPA, WPA-PSK, 802.11x with EAP-TLS, PEAP or MD5-Challenge, IPSec/L2TP, PPTP
- ▶ IrDA wireless compatibility

#### Power:

- ▶ Ion-li rechargeable and removable battery (3.6 V, 4400 mAh)
- ▶ Battery operating time: up to 2 hours (may vary depending on your settings and the communication mode used)
- ▶ Integrated charger
- ▶ Battery recharge time: 4 hours (when recharged with the Frontline Communicator)
- ▶ Can be powered with an AC adaptor (4 A, 5 V)

#### Other features:

- ▶ Frontline PDA software
- ▶ Integrated stand and belt clip

#### Operating temperature & Humidity:

- ▶ -10 to 40° C (14 to 104° F)
- ▶ 0 to 95% humidity non-condensing

#### Certifications:

- ▶ CE, FCC, IC

\* Add-on feature. Available upon request only.

# Detailed Specifications

## Handheld Camera

### General specifications:

- ▶ Picture elements: 510 (H) x 492 (V)
- ▶ Resolution: 330 lines
- ▶ Automatic exposure: 1/60 s to 1/15000 s
- ▶ Auto image: brightness, exposure, white balance
- ▶ Sensitivity: less than 3 lux
- ▶ Integrated white LED
- ▶ Snapshot button for still images
- ▶ Retractable pointer
- ▶ Weight: 41 g (1.4 oz)

## Battery Charger

### General specifications:

- ▶ Enables you to recharge two batteries at the same time (i.e. the battery in the charger and the battery in the Frontline Communicator)
- ▶ Fast charger

## Software

### The PC software enables:

- ▶ The audio/video communication between the PC and the Frontline Communicator
- ▶ Real-time video decoding and viewing
- ▶ Real-time audio coding/decoding
- ▶ Audio and video communication starting at 30 Kbps of bandwidth
- ▶ Reception and still frame capture (jpeg, bmp, tiff, gif)
- ▶ Video backup and image management
- ▶ Easy resizing of images and video
- ▶ Call management
- ▶ File transfer between the transmitter and the PC

### Compatibility:

- ▶ Windows<sup>®</sup> 2000, XP
- ▶ MPEG4

### System requirements:

- ▶ 1 GHz Pentium III<sup>®</sup> processor-based personal computer
- ▶ 256 MEG of RAM
- ▶ A microphone
- ▶ Earphones (recommended) or speakers
- ▶ A sound card
- ▶ Monitor with good display quality

### Characteristics and integrated fonctions:

- ▶ Simple and user-friendly interface
- ▶ Operates on IP networks (Internet)
- ▶ Firewall friendly
- ▶ .NET<sup>®</sup> technology
- ▶ Address book (XML)



PC software user interface



Frontline Communicator user interface