

introducing a rugged revolution  
in law enforcement video capture

## toughbook arbitrator



### Introducing the groundbreaking Toughbook Arbitrator—a rugged revolution in law enforcement video capture.

The Toughbook® Arbitrator is a rugged and durable mobile digital video system specifically engineered to excel in the demanding environments law enforcement personnel face every day. Built with legendary Toughbook reliability, this fully-integrated system offers unparalleled video capture, storage and transfer—and is designed to work with back-end software for seamless video management, including archiving and retrieving. Capture it all with the Toughbook Arbitrator.

#### DURABILITY FEATURES

- Full magnesium alloy case
- Temperature- and dust-resistant
- Vibration- and spill-resistant
- Rugged mount ensures stability and dissipates heat

#### KEY FEATURES

- Entire system, including camera, recorder with software and P2 card and wireless receiver, is easily installed in the trunk or front of law enforcement vehicles
- Camera is temperature-, dust- and vibration-resistant
- Camera's nearly 70 degree wide-angle lens provides an exceptionally large field of view
- Infrared technology allows for viewing even in complete darkness
- High-capacity reusable 4GB P2 card stores up to 16 hours of video data and can be rewritten more than 100,000 times without a decrease in quality
- Recorded files can be archived on a local/external hard drive or DVD-R/CD-R and wirelessly transmitted via 802.11g, EDGE and EV-DO
- Bundled with powerful yet user-friendly software designed for public safety
- Open-system software ensures maximum compatibility and stability
- Compatible with a variety of Panasonic Toughbooks and most other notebook PCs

COMPONENT	SPECIFICATION
<b>Camera</b>	
<b>FEATURES</b>	
• Zoom Range	22x Optical; 220x (with Digital)
• Low Light Capability	0.7lux (color); 0.06lux (B/W)
• Infrared	Auto/Manual
• Wide Angle Lens	3.5–68.4 degrees
• Auto Adjustments	Focus, White Balance
• Weight	14.1 oz.
• Dimensions	5.3"L x 2.9"W x 3.0"H (with Sun Visor)
<b>CONTROLS</b>	
• Zoom	Auto/Manual
• Back Light Compensation	Auto/Manual
• Record	Auto/Manual
• Control Illumination	Auto/Manual
<b>P2 Recording Deck</b>	
<b>FEATURES</b>	
• Recording Media	Solid State P2 Card
• Number of Card Slots	2
• P2 Card Capacity	4GB (1 included)
• Recording Time	16 Hours Per Card (512Kbps) 8 Hours Per Card (1Mbps)
• Resolution	320 x 240 (QVGA)
• Pre-/Post-event Recording	0–180 Seconds Adjustable
• Weight	38.3 oz.
• Dimensions	7.0"W x 2.0"H x 6.1"D
<b>CONTROLS</b>	
• Key Lock	Tamper-resistant for Evidentiary Integrity
• On P2 Deck	Record, Stop
• Via Laptop PC	Record, Stop, Play, Pause, Slow
• External Triggers	Up to 8 Configurable (Including Speedometer, Radar, Air Bag, Shotgun Rack)
<b>Audio System</b>	
<b>WIRELESS RECEIVER</b>	
• Frequency Range	UHF 600–700MHz
• Channels	Up to 1,000 Channels
• Antennas	In-car Diversity, External Vehicle Mount
• Charging Bay	For 1 Wearable Microphone
• Weight	28.2 oz.
• Dimensions	5.5"L x 6.8"W x 2.1"H
<b>WEARABLE WIRELESS MICROPHONE</b>	
• Power Supply	10 Hour Rechargeable Battery
• Input	Lavalier and Internal Condenser
• Auto Sync to Receiver	Up to 1,000 Ft. Range*
• Dimensions	1.2"L x 2.5"W x 3.97"H
<b>AUDIO INPUTS</b>	
• Hidden In-car Microphone	RCA x 1
• Channels Available	3 (2 simultaneous)
<b>Software</b>	
• Unlimited Meta Data Tags	Configurable (Date/Time, ID, Radar, GPS, Triggers)
• Officer Notes	Manual or Automated for Quick Archive Retrieval
• Radar Gun Protocol	Multiple Supported
<b>Other</b>	
• Ports	Serial, Ethernet (RJ-11)
• Data Upload	Wireless, Ethernet, Removable Media
• Warranty	One year, parts and labor
<b>Accessories</b>	
• Transceiver, Lavalier Microphone	CY-2005TMC16
• 2GB P2 Card	AJP2C002HG
• 4GB P2 Card	AJP2C004HG

\*Depending on environment



For more information call 1-800-662-3537, option 4, email [government@p2c2.com](mailto:government@p2c2.com) or visit us on the Web at [panasonic.com/toughbook/lawenforcement](http://panasonic.com/toughbook/lawenforcement).

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**TOUGHBOOK®**

Computers for the Outside World™

**rugged toughbook durability in a ground-breaking mobile digital video system.**

Combining next-generation digital recording and data-compression technologies, the all-new Toughbook® Arbitrator is the world's most advanced, reliable and easy-to-query incident documentation system.

Engineered to excel in the demanding environments law enforcement personnel face every day, the durable, fully-integrated Toughbook Arbitrator offers unparalleled video capture, storage and transfer—and is designed to work with back-end software for seamless video management, including archiving and retrieving.

This tamper-proof, total mobile digital video solution provides prosecutors with admissible evidence and offers police forces—and the public—with an unbiased account of what takes place during an incident. Good news for law enforcement; bad news for the bad guys. Capture it all with the Toughbook Arbitrator.

**camera**

Law enforcement is a tough job that requires the toughest equipment. The Toughbook Arbitrator's rugged camera is resistant to temperature, vibration and splashes and encased in magnesium for industry-leading reliability. Its custom-designed camera mount ensures stability, dissipates heat and allows for mounting in existing sun visor holes. In addition, the camera comes equipped with an array of next-generation features including:

- Infrared technology for high sensitivity, low light and night-viewing capabilities
- Configurable 220X zoom for enhanced surveillance capabilities (Optical 22X and Digital 220X)
- Nearly 70 degree wide-angle lens for an exceptionally large field of view
- Backlight compensation for greater detail in all lighting conditions
- Built-in reflection reduction to decrease glare from the windshield or hood and a sun shield for overhead sun protection
- Auto zoom, auto focus, and auto white balance for easy camera operation
- Automatic and manually operated control button lighting
- Set all controls automatically or manually by way of the camera or computer touchscreen or touchpad.



**video and audio recorders**

The Toughbook Arbitrator's video and audio recorder mount easily in a patrol car's console or trunk. Advanced MPEG4 technology delivers high quality 30-frame-per-second video at low bit rates, enabling the transfer of video files over 802.11g, EDGE and EV-DO wireless networks at reduced thru put rates. Other features include:

- Three audio inputs, two channel audio track
- User-definable pre- and post-event recording from 1-180 seconds
- High-performance video encoding for subsequent viewing, storage, reproduction and archiving
- Wirelessly transfer eight hours of video in 15 minutes via 802.11g
- Reduced storage costs while maintaining quality video files

introducing the toughbook **arbitrator**

**microphone system**

Ultra-portable and powerful, the Toughbook Arbitrator's wireless microphone attaches easily to a police officer's belt and can transmit quality audio up to 1,000 feet from the receiver.

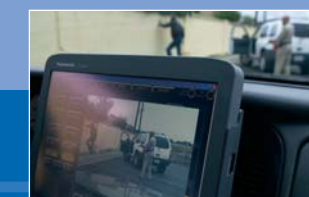
- Auto scans for clearest communication channels and auto syncs between wireless microphone and receiver
- Up to 1,000 channels available in the open 600MHz – 700MHz band
- Comes standard with wireless roof top dual diversity antennas and one non-directional wired microphone for in-car recording.



**built for law enforcement**

The Toughbook Arbitrator is a fully-integrated system engineered specifically for law enforcement. It's a police officer's ultimate all-in-one mobile digital video recording solution.

- Auto record feature can be triggered by air bag, speedometer, doors, lights, sirens, shotgun racks, wireless microphones and an optional radar gun interface (up to 8 triggers)
- GPS data can be stored when device is attached to a PC and software can capture and store environmental data such as bookmarked locations, vehicle speed and radar gun data
- Standard meta data tags include date, time, shift, vehicle number, unit area number, officer names and ID numbers
- P2 card can be locked into the recording deck and removed only by authorized personnel
- Feature-rich, user friendly, front end application includes user-definable bookmarks



**P2 storage card**

Rugged and reliable, the Toughbook Arbitrator's solid state P2 card stores up to 4GB (16 hours/512 Mbps) of video yet is only the size of a PCMCIA card. Best yet, it enables law enforcement personnel up to 100,000 data rewrites with no decrease in quality.



- Easily replaceable to ensure every event is captured
- Can be safely inserted in and removed from the recorder up to 30,000 times
- Individual serial number for easy identification
- Solid state memory protects against accidental erasure
- Aluminum die cast case protects against heat, jolts and vibration
- Data can be transferred from the P2 card wirelessly over WiFi or 3G networks, or to any other in-vehicle media such as a hard drive, DVD-R or CD-R, or removed by hand on the P2 card
- No moving parts ensures video quality isn't impacted by vibration or sudden jolts in a moving patrol car

- Integrates with powerful backend software to offer the industry's most powerful search capabilities and most efficient file transfer process
- Compatible with a variety of Panasonic Toughbooks and most other notebook PCs



**Panasonic ideas for life**