

IRIG 106 CHAPTER 10 RECORDER

Multi-channel PCM recorder

RS-422 and UDP output

IRIG-B precision timing for recording and playback

FEATURES

CAPABILITIES:

The IRIG 106 Chapter 10 Recorder leverages the advantages of standards-based formats and tools to store, process, and analyze your data.

RS-422 PCM RECORDING AND PLAYBACK:

Record and play back multiple channels with time using a single .ch10 file.

LIVE AND PLAYBACK CHAPTER 10 UDP OUTPUT:

Send live frames to Chapter 10 UDP compliant decommutators. Send playback frames later to re-run contact processing.

IRIG-B TIMESTAMPING:

Each channel is hardware timestamped with IRIG-B and recorded for precision timing.

IRIG-B PLAYBACK TIME REGENERATION:

Playback of PCM data is aligned to a generated IRIG-B output.

NETWORK CENTRIC OPERATIONS CONCEPT:

Control and status from a web browser or open standard Ground Equipment Monitoring Service (GEMS) network machine-to-machine interface.

DATA QUALITY MONITORS:

Each channel provides realtime data quality indicators for Dead Clock, Data Transition Density, Frame Sync Lock Status.

SOLID STATE STORAGE:

High-performance solid state drives enables simultaneous recording and playback.

DATA VISIBILITY:

Use browser-based User Interface (UI) to see the frame data as it is received or played back.

TEST CAPABILITY:

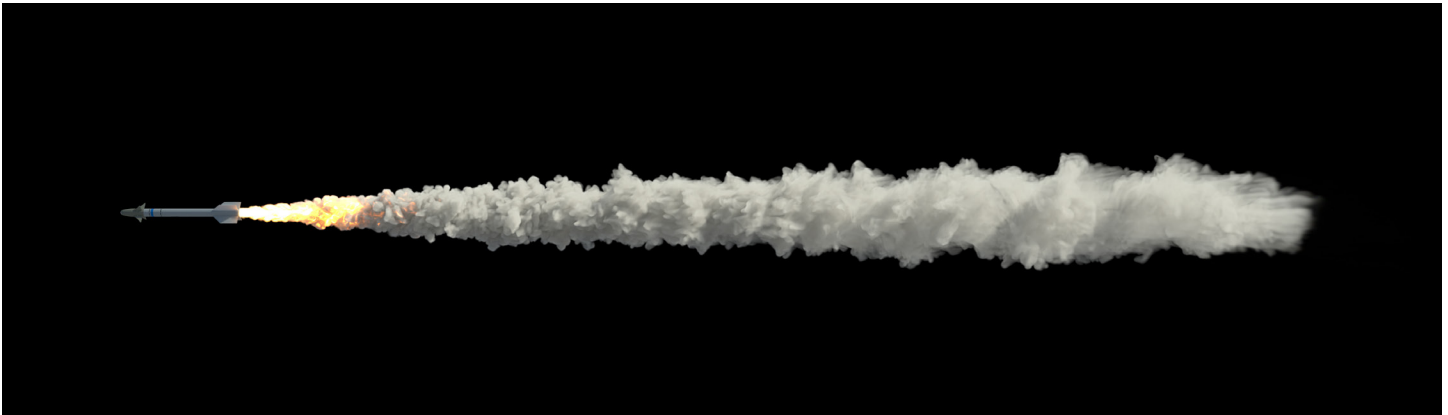
PCM loopback capability and integrated BERT capability.

POWERED BY SOFTLINK®:

Our systems are built on SOFTLINK, ARKA's flexible and configurable software-defined architecture. SOFTLINK leverages a vetted library of modular, scalable software applications (Apps) and services to tailor and evolve system capabilities with minimal risk and cost. SOFTLINK's open architecture and open API enable SOFTLINK Apps to be truly "environment agnostic," meaning Apps can run on premise (our hardware or yours), on Virtual Machines (VMs), in containers, or in the Cloud.

VIRTUAL AND CLOUD DEPLOYMENTS:

When Apps are deployed in the Cloud, they can be hosted in VMs or orchestrated in containers—interoperating across network boundaries. Multiple instances of these environments can exist simultaneously in various locations to provide resilient, fail-safe solutions. What's more, Apps are "Cloud agnostic," allowing them to perform seamlessly across Cloud platforms.



SPECIFICATIONS

IRIG 106 DATA	SPECIFICATIONS
UDP Transmission	10.3.9.1 10.3.9.1.1 10.3.9.1.2 10.3.9.1.3
Setup Record	Computer Generated Data Format 1 ASCII IRIG 106 Chapter 9
Time Data	10.6.3.2 Time Data Format 1 Day, Month and Year Format
PCM Data	10.6.1.1H PCM Data Format 1 11.2.2.2 Intra-Packet Header 11.2.2.2 G, E 16 Bit
Video Data	Video Packet Format 2 - 11.2.10.3 ISO/IEC 13818-7 (AAC) Baseline Profile H.264
Ethernet Data	Ethernet Data Packet Format 0 11.2.15.1 Ethernet Data Packet Format 1 11.2.15.2 (UDP)

FUNCTIONAL	SPECIFICATIONS
Serial Telemetry	Data/Clock
IRIG Time Resolution	10 ns
IRIG Accuracy	100 μs
User Interface	Browser
Monitor and Control	GEMS
System Setup	Linux

INTERFACES	SPECIFICATIONS
Serial Inputs	Multiple
Serial Outputs	Multiple
Electrical Interface	RS-422 (optional TTL I/O Panel)
Clock/Data Polarity	Configurable
Ethernet Ports	Multiple
UDP Clients	Multiple
UDP Transmitters	Multiple
IRIG	AM IRIG-B
Video (SD or 3G SDI)	Up to 4 (Half-duplex) Two embedded audio channels each



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