

GV 3.0TM

Gv²FTM GvRasterTM GvMPTM

Integrating Full Motion Video
with
Geospatial Intelligence

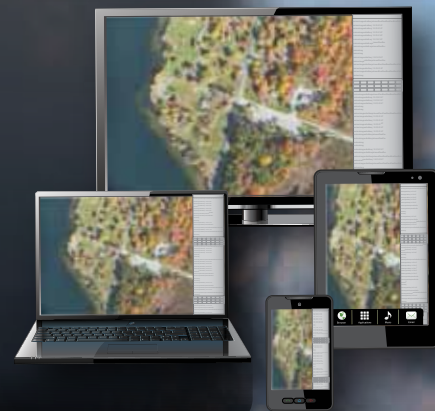
GV 3.0TM is a Java-based, platform independent raster imagery and Full Motion Video (FMV) viewer that supports management and playback of NITF/NSIF Raster Imagery and MPEG2 transport stream video data. (www.gv30.net)

Gv²FTM SDK is a commercial FMV software library for developers that require MPEG2 w/KLV, H.264 & MJPEG video support readily integrated within their core geospatial product offerings.

GvRasterTM SDK is a Java developer toolkit that supports the manipulation of still imagery and metadata in a multitude of formats including NITF, NSIF, JPEG, JPEG2000, GeoTIFF, PNG & MrSID.

GvMPTM is a lightweight deployable FMV viewer for the Android platform built on PAR's Gv²FTM SDK. Put the power and flexibility of Gv²F on your Android smartphone or tablet.

GvTetherTM is a hardware and software solution for tethering and routing data between Android devices and military radios.



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421 Ridge Street
Rome, NY 13440

Feature Comparison Table

GV FEATURES	GOTS	SDK Toolkits	
	GV 3.0	Gv²F	GvRaster
Video Standards			
MPEG-2, MPEG-4	X	X	
H.264	X	X	
Motion JPEG 2000	X	X	
AVI, MOV	X	X	
MPEG-2 Audio (Part 3)	X		
Mosaic creation, tracking & slicing	X		
Stream Reading Formats			
MPEG-2 Program	X	X	
MPEG-2 Transport	X	X	
Stream Writing Formats			
MPEG-2 Program & Transport		X	
Metadata			
SMPTE 336M-2001	X	X	
Predator ESD	X	X	
Cursor on Target (COT)	X		
MISB EG 0101.5 (Predator AV Basic)	X	X	
MISB 0601.3 (UAS Data Link Local)	X	X	
MISB 0102.5 (Security Metadata)	X	X	
MISB EG 0903 (Video Moving Target Indicator)	X	X	
MISB RP 0808 (Ancillary Text)	X	X	
Synchronous Metadata (RP 0604)	X	X	
KLV Encode Raw Telemetry	X	X	
Annotation			
MISB RP 0602.2	X	X	X
MIL-STD-2525B	X	X	X
Image Formats			
NITF, NSIF (MIL-STD-2500C)	X		X
AAF, ISR	X		
BMP, PNG	X		X
CADRG/CIB	X		X
DOQ	X		
DTED	X		
JPEG	X		X
JPEG2000	X		X
GeoTIFF	X		X
LANDSAT	X		X
SID (MrSID 7.0)	X		X
Image Layout			
RGB	X		X
YUV	X		X
Image Layer Insertion & Extraction	X		X
Chipping / Cropping	X		X



Feature Comparison Table

Communications			
JPIP	X	X	X
RTP/RTSP	X	X	
TCP (SDP, HTTP)	X	X	
UDP Unicast	X	X	
UDP Multicast	X	X	
Programming APIs (Bindings)			
Plug-In Interface	X		
Java		X	X
C++		X	X
C#		X	X
Android OS		X	X
Apple iOS (Q4 2012)		X	X

Note: GV3.0 is a Government of the Shelf (GOTS) application that is available to US DoD personnel and authorized contractors at no cost. (<http://www.gv30.net>)

PAR also provides commercial applications built on Gv2F to get your project up and running quickly.

GVMP – Full Motion Video with KLV metadata on Android smartphones and tablets

GVWatchTool – Lightweight, Deployable FMV Viewer built on Gv2F.

GVInstantView – Real-time Streaming playback of Digital Full Motion Video feeds