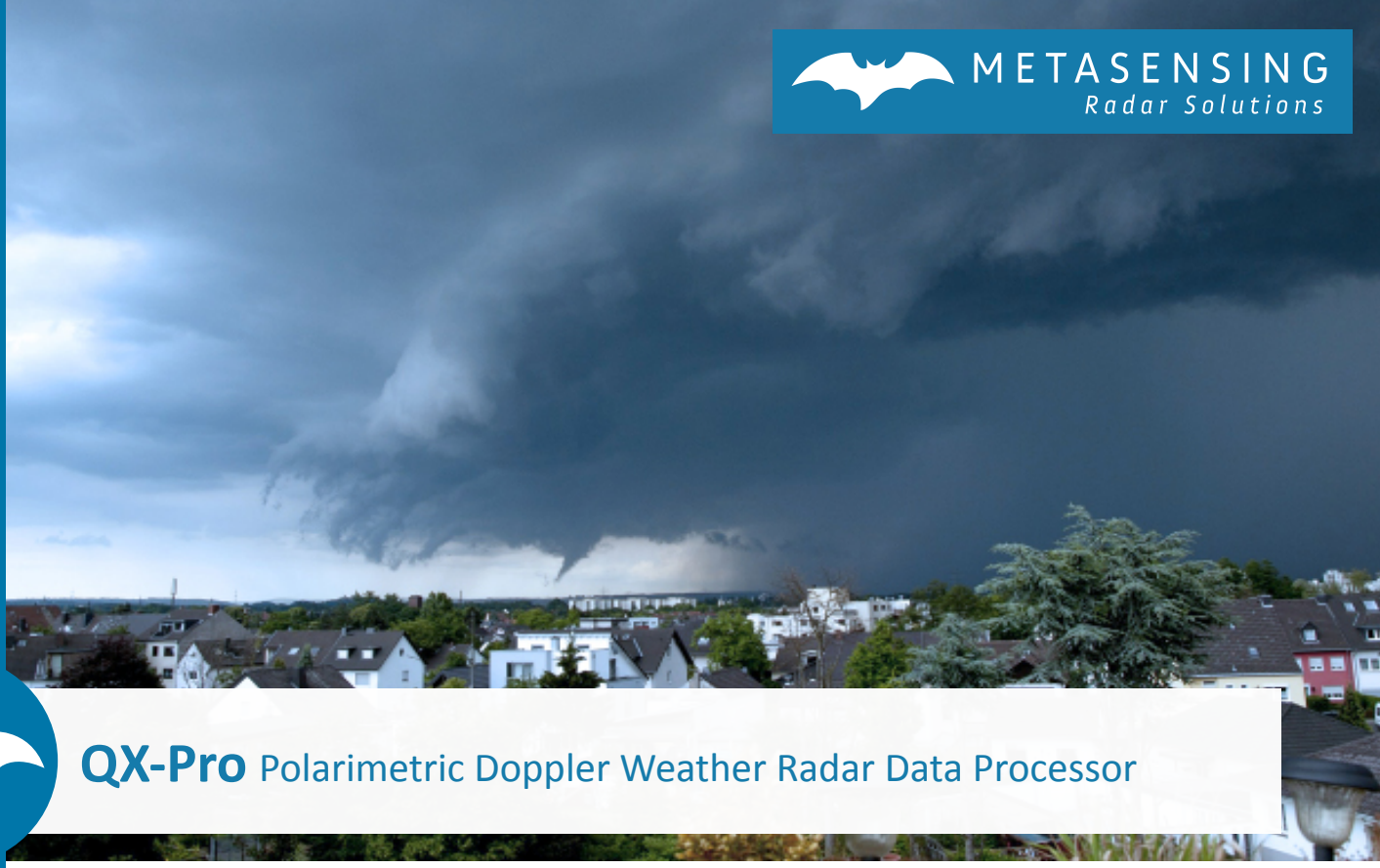
METASENSING
Radar Solutions



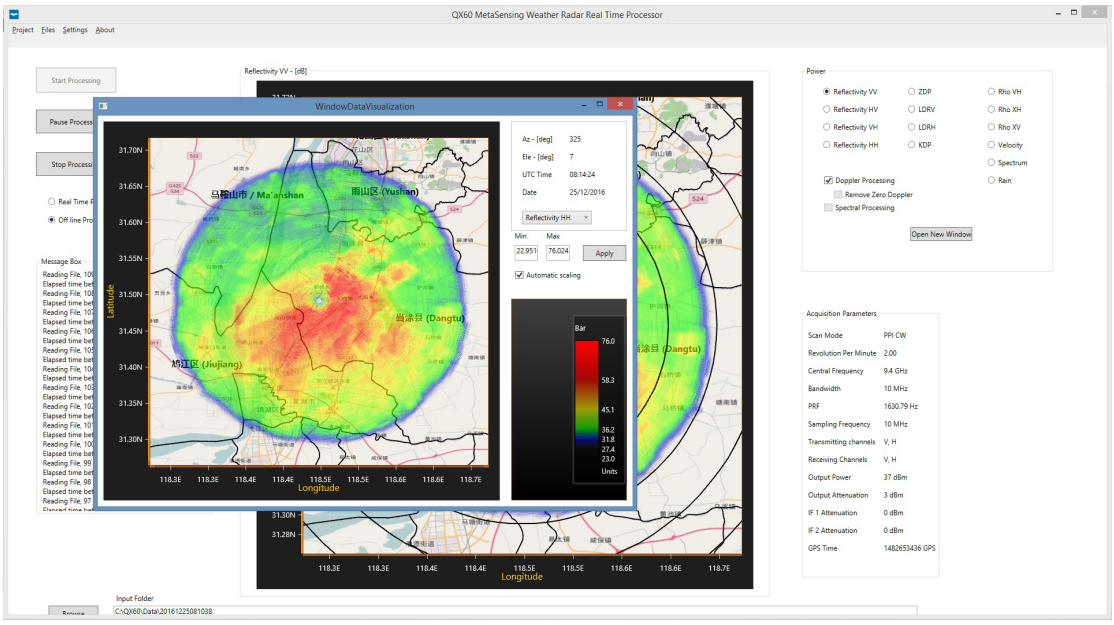
QX-Pro Polarimetric Doppler Weather Radar Data Processor

QX-Pro is MetaSensing's real-time processing and visualization software for the fully polarimetric (Quad-Pol) high-resolution Doppler weather radar sensors of the QX Family.

The **QX-Pro** delivers and visualizes all the relevant outputs for meteorology and hydrology applications based on fully polarimetric signal processing, which improves the rain rate estimates through improved clutter suppression and rain attenuation correction.

The **QX-Pro** is based on Graphical Processing Unit (GPU) computation and TCP/IP communication protocols to allow fast real-time processing of the radar data.

Thanks to its architecture, the QX-Pro runs on workstations and laptops equipped with mid-end graphical cards.



Screenshot of the Graphical User Interface

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QX-PRO PRODUCTS

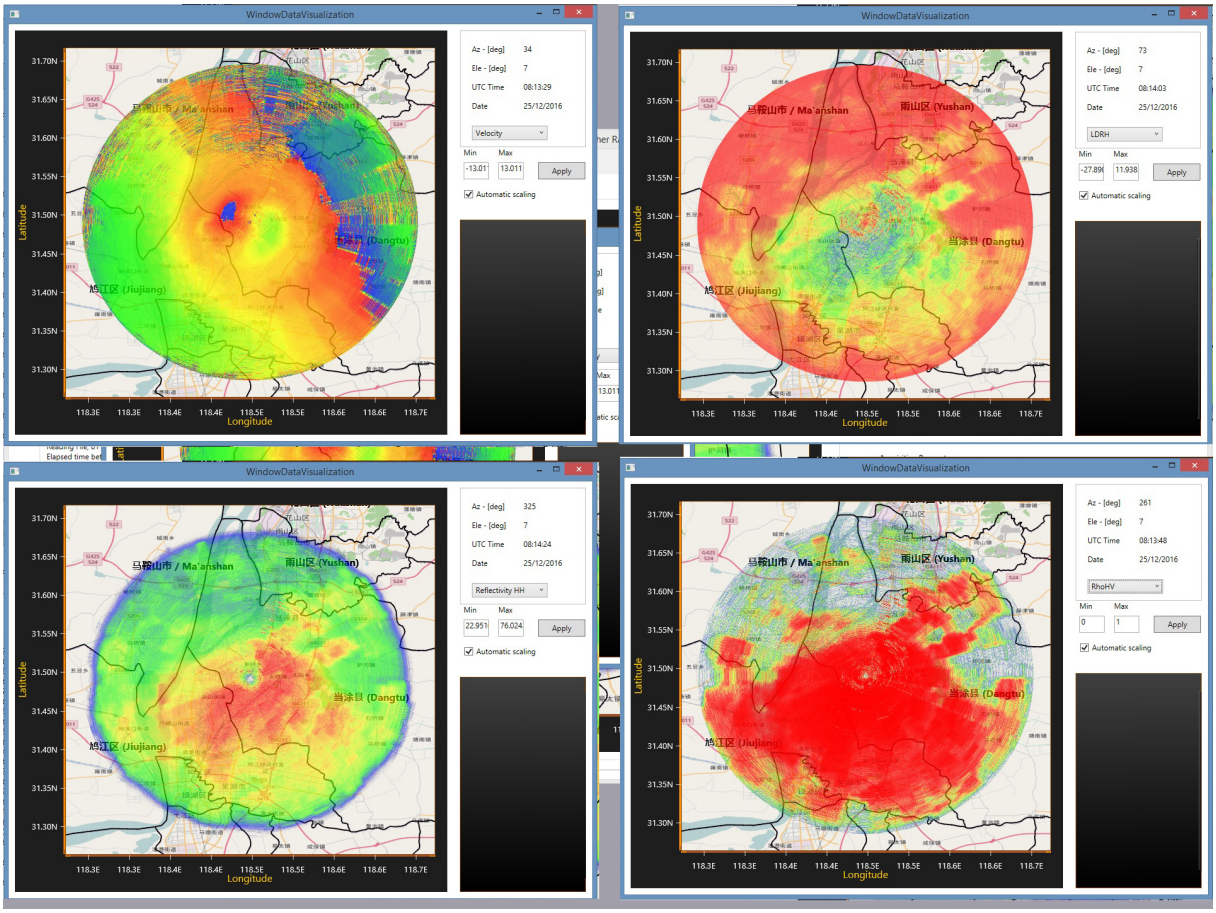
Raw Data
Reflectivity (Z_{hh}, Z_{vv}, Z_{hv}, Z_{vh})
Radial Velocity (v)
Spectrum Width (w)
Differential Reflectivity (Z_{dr})
Linear Depolarization Ratio (LDR)
Differential Propagation Phase (Φdp)
Specific Differential Phase (K_{dp})
Copolar Correlation Coefficient (ρhv)
Cross-polar Correlation Coefficient (ρxh)
Rain rate estimators (R-Z, R-K_{dp})
Wind direction
Wind Speed
Hydrometeor classification
Attenuation correction factor

METEOROLOGY

Plan Position Indicator (PPI)
Range Height Indicator (RHI)
Constant Altitude PPI (CAPPI)
Maximum Display (MaxDis)
Column Maximum (ColMax)
Vertical Cut (VerCut)
Echo Height Top (EHT)
Echo Height Base (EHB)

HYDROLOGY

Surface Rainfall Intensity
Accumulated Precipitation
Vertical Integrated Liquid
Surface Hourly Rainfall
Rainfall Intensity Histograms
Vertical Profile Correction



Multiple windows for different products of the QX-Pro

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