



NOVA 9000 ATM

Air Traffic Monitor (ATM)



The NOVA 9000 Air Traffic Monitor (ATM) provides the tower controller with a simple clear picture of the traffic pattern up to a range of 30 Nm. Radar information is overlaid maps showing extended runway centre-lines and geographical features as required.

In its simplest form, the ATM may be a standalone system with a single MSSR/PSR plot input, or provided as part of a NOVA 9000 Approach system with integrated A-SMGCS functionality.

The NOVA 9000 ATM is capable of handling the highest traffic densities, safely and efficiently. Processing systems can include the optional Approach Funnel Deviation Alerting System (AFDAS) to alarm controllers of aircraft deviating from the nominal approach path. Raw video may be presented using the RANC processor, and transmitted via low cost fibre-optic cross-site links.*

FEATURES

1. Multi-level menu of selectable functions
2. Synthetic display presentation of target position indicators with leader lines, labels and track history superimposed on a selection of maps
3. Inset display window, with independently selectable range and off-centring
4. Tabular data block

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PERFORMANCE

Max. response time (video)	<1000ms
Max. no. targets (PSR/SSR plots)	500
Typical latency (max. input)	<300 ms

OPERATIONAL

Temperature	+5°C - +30°C
Humidity	10-80%, non-condensing
Power (processor)	175 W, 115/230 VAC, 50-60 Hz
Weight (processor)	15 kg (max)
Noise (processor)	Office environment (<45 dBA)

FUNCTIONS

Centre

Off-centre

Presets

Reset

Range

Range rings

Set ref

BRM Lat/lon

Compass rose

Inset display

Overlay selections

Label rotate

Trail dots

Synthetic trail selection

Prediction vectors

Prediction vector selection

Brightness

QNH input

PSR video On/off (optional)

PSR afterglow

EXPANDABILITY OPTIONS

PSR Data Processor	Allows both MTI and raw video to (RANC) be displayed on the ATM. Either as single channel, or both overlaid with different intensities. Selection of afterglow
Assistant Working	Provides local code/call-sign Position (AWP) database and flight plan data, permits SSR/call-sign conversion and output of flight strips
Approach Funnel Deviation	Provides the controller with alarms should an aircraft be too far left/right or up/down of the runways extended centreline
Minimum Safe Altitude	Provides alarms should an aircraft Warning (MSAW) cross a boundary with a minimum height attribute
Approach control system	Expandable to a full NOVA 9000 approach control system
A-SMGCS	Expandable to a full NOVA 9000 Advanced Surface Movement Guidance and Control System



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