



LOOKING INTO THE FUTURE WITH CLEARVISION™ SYSTEM

UNIQUE IN
REGIONAL
AVIATION

ATR
PROPELLING THE NEXT CONNECTION

ATR'S INNOVATIVE SOLUTION FOR LOW-VISIBILITY OPERATIONS

Designed for low-visibility and night conditions, the ClearVision™ system offers optimised Head-Up capabilities coupled with Enhanced and Synthetic Visions

PRIMARY OPTION



SKYLENS™

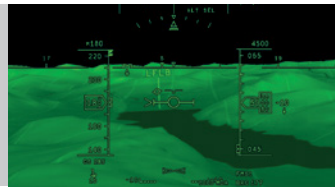
Flight guidance symbology and runway highlighting

SKYLENS™ Head-Mounted Display (HMD) for an unlimited field of vision

ADVANCED VISION OPTIONS

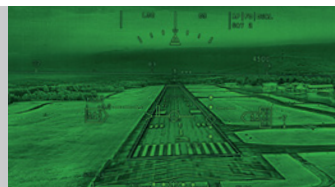
SKYLENS™ + Synthetic Vision System (SVS)

Generates images of terrain and obstacles from a database



SKYLENS™ + Enhanced Vision System (EVS)

Displays augmented outside view in real-time through the use of a camera



Camera equipped with multi-spectral sensors on aircraft nose

SKYLENS™ + Combined Vision System (CVS)

Combines both EVS and SVS images for outstanding vision



Farnborough 2016
Airlines' feedback

March 2017
System integration on ATR test aircraft

Q2 2018
System available

PROVEN ECONOMICAL AND OPERATIONAL BENEFITS

- Less delays, diversions and cancellations
- Compatible with GNSS-based approaches
- No additional airport facilities required

BENEFITS

PRIMARY OPTION

SKYLENS™ allows identical operational credits as classical Head-Up Displays

- Assistance in decision making during take-off, approach and landing
- Credit at take-off and landing by reducing RVR

SKYLENS™ + SYNTHETIC VISION SYSTEM (SVS)

SKYLENS™ + SVS allow a greater awareness of terrain in clouds, mountainous areas and during night flights

Facilitates operations for difficult or unfamiliar airports

SKYLENS™ + ENHANCED VISION SYSTEM (EVS)

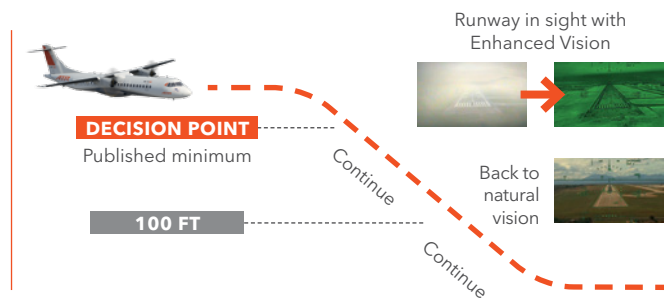
SKYLENS™ + EVS offer a unique and optimised solution for regional aviation

- Augmenting natural vision to aid decision making
- Unprecedented situational awareness in harsh weather conditions
- Additional credit at landing by further reducing RVR

APPROACH **WITHOUT** VERTICAL GUIDANCE

VOR/DME | GNSS (LNAV)

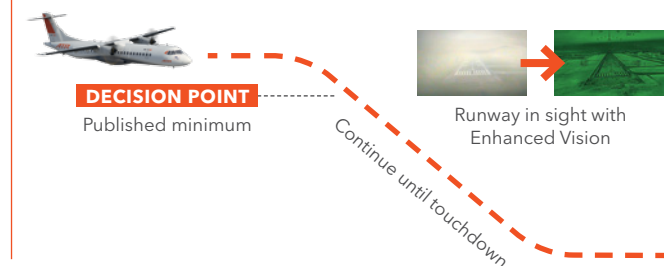
Credit down to 100 ft



APPROACH **WITH** VERTICAL GUIDANCE

ILS CAT I / II | Baro-VNAV | LPV

Credit until touchdown and rollout
RVR lowered to 1,000 ft



GLOSSARY:

Baro-VNAV: Barometric Vertical NAVigation

CVS: Combined Vision System

DME: Distance Measuring Equipment

EVS: Enhanced Vision System

ft: Feet

GNSS: Global Navigation Satellite System

HMD: Head-Mounted Display

ILS: Instrument Landing System

LNAV: Lateral NAVigation

LPV: Localizer Performance with Vertical guidance

RVR: Runway Visual Range

SVS: Synthetic Vision System

VOR: VHF Omnidirectional Range



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