AEROMECCANICA

SAPR – UAV

Unmanned Air Vehicle

VIRTUALMIND GROUP

Release 01-2016

UAV - SAPR

The systems produced by Aeromeccanica are all designed and manufactured in Italy by Virtualmind

OUR FLEET:

AEROMECCANICA

Ala Fissa

Ala Rotante

Multirotore

MERCATI

- Video sorveglianza
- Ricerca e Soccorso
- Investigazione su scene del crimine
- Controllo e prevenzione incendi
- Controllo infrastrutture
- Monitoraggio linee Alta Tensione
- Controllo di pipeline
- Analisi su piattaforme offshore
- Documentari
- Cinema – Spot televisivi
- Pubblicità

SOLUZIONI

- UAV ala fissa
- APR ala rotante a decollo verticale
- Tecnologie omnidirezionali Real 360°
- Sistemi di ripresa a 360°
- Laserscan
- Camere termiche
- Sonde multispettrali
- Visione del filmato da terra in realtime
- Analisi dati e posizionamento GPS
- Video Controllo di luoghi inacessibili
- Produzione di file tridimensionali

FLY360

INTELLECTUAL PATENTED PROPERTY

OPERATION SCENARIO

- Video surveillance
- Search and Rescue SAR
- Investigation crime scene
- Control and fire prevention
- control infrastructure
- Monitoring lines High Voltage
- Control of oil-pipeline
- Analysis of offshore platforms
- aerophotogrammetry
- Traffic monitoring
- geomorphology
- Archeology

VIRTUALMIND SUCCESS STORY

MULTITOUCH TECHNOLOGIES FOR CONTROL ROOM

- **Based on some of our virtualmind international patents**
- Virtualmind produces interactive devices
- that allow you to recognize the touch of mu tiple inputs simultaneously.
- These systems Multitouch can intercept through gestur programmable up to 32 control points with sizes up to 180 ", they are suitable for Control Room in scenarios
- Tactical and Strategic
- The systems are based on LED panels with resolutions 4-6K, on Linux, Windows, iOS / Android.
- **Our boards are currently being used in control room tactics, aboard the ship Garibaldi MM:** www.panoptes360.com

foto Marina Militare

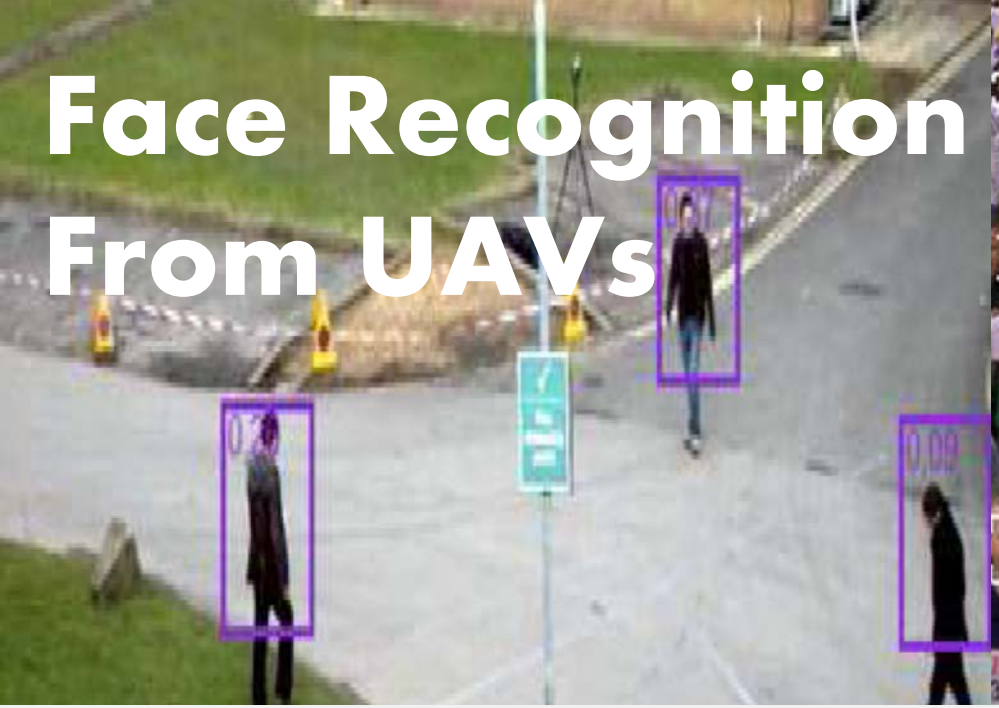
Virtualmind Multitouch table onboard MM Garibaldi

Multitouch LCD non utilizza sistemi FTIR o DSI, integra invece un'esclusiva tecnologia che permette di realizzare un sistema realmente multitouch basato su LCD, nei formati da 32" a 180" su piattaforma Linux, Windows, Android.

Multitouch LCD è un sistema assolutamente innovativo, è un nuovo mezzo collaborativo che rende unica e straordinaria l'esperienza interattiva tra utenti e device

Wayfinding - alcuni esempi possono essere le comunicazioni ai cittadini con mappe e percorsi turistici e mappe.

Face Recognition From UAVs



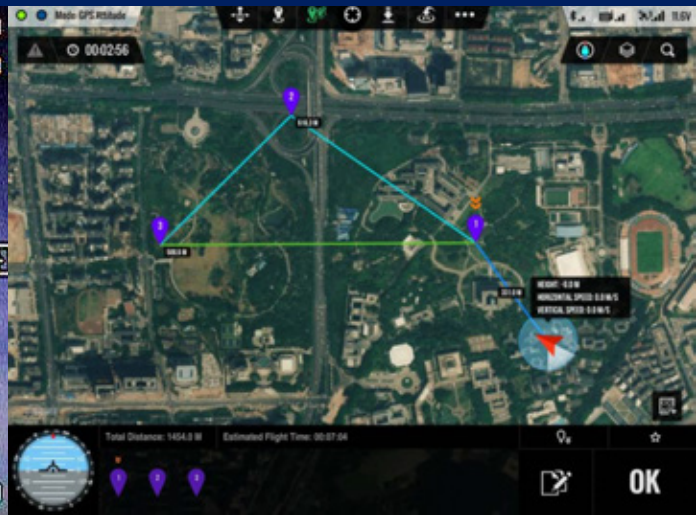
PROBLEM

Mobility in the world, thanks to modern means of transport has grown exponentially.
This makes it increasingly difficult to control people who travel for business or pleasure anxichè moving d aun continent to another for offenses or acts of terrorism

SOLUTION

Technology from us will be able to solve this problem.
with a series of very compact cameras you will be able to detect the size and biometric data remotely and compare them with realtime database of those at risk.
These innovative cameras can also be used in reverse order staring from different angles at the same point for 3d scanning

UAV- Remote Control



We create modern systems also IR and Ground Station Remote Control

UAV- System integration

Drone > UAV professional + **FLIR Thermal** + **Remote Control & Ground Station**

FLY 360

VIRTUALMIND

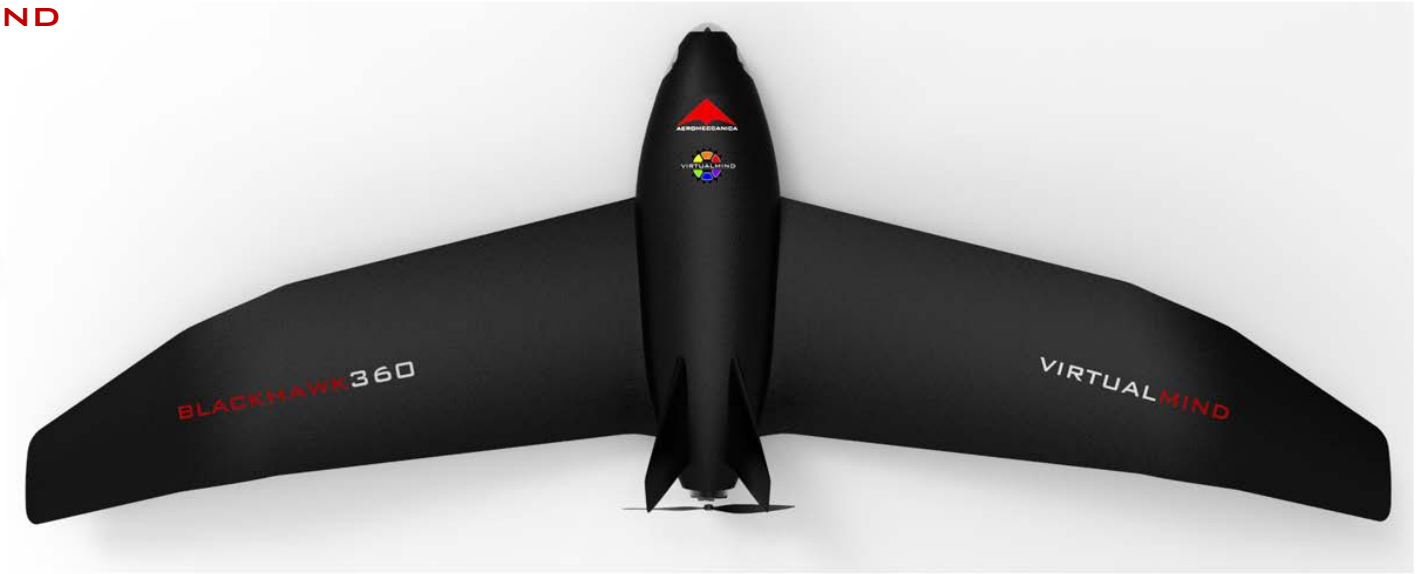
SN: VM-FLY360-2015

COMING SOON

Dimension	15 cm
Weight	160 kg
Payload	0 kg
Autonomy	18-20 min
Camera Type	12-16 Mpx -Flir IR-360°
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection-360°**

BLACKHAWK 360

VIRTUALMIND



SN: VM-BLACKHAWK360-2015

FLY360

FPV 360°

Dimension	208 cm
Weight	2-5 kg
Payload	1-5 kg
Autonomy	48-80 min
Camera Type	24-48 Mpx -Flir IR, 360° CAMERA
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection, Topography, OMNIDIRECTIONAL 360**

BLACKHAWK

SN: VM-BLACKHAWK-2015

Dimension	200 cm
Weight	2-5 kg
Payload	1-5 kg
Autonomy	48-80 min
Camera Type	24-48 Mpx -Flir IR,
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection, Topography**

VIRTUALMIND

SPYHAWK

SN: VM-SPYHAWK-2015

Dimension	160 cm
Weight	2-5 kg
Payload	1-5 kg
Autonomy	48-80 min
Camera Type	24-48 Mpx -Flir IR,
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection, Topography**

VIRTUALMIND

INTELLECTUAL PROPERTY PATENTED

MADE IN ITALY MADE IN

CHEYENNE 360

FPV 360°

SN: VM-CHEYENNE360-2015

Dimension	160 cm
Weight	3-5 kg
Payload	1-5 kg
Autonomy	18-22 min
Camera Type	24-48 Mpx -Flir IR, 360° CAMERA
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection, OMNIDIRECTIONAL 360**

VIRTUALMIND

CHEYENNE

VIRTUALMIND

SN: VM-CHEYENNE-2015

Dimension	160 cm
Weight	3-5 kg
Payload	1-5 kg
Autonomy	18-22 min
Camera Type	24-48 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection Topography**

AEROMECCANICA

EAGLE X6

SN: VM-EAGLE-X6-2015

Dimension	100 cm
Weight	3-7 kg
Payload	1-4 kg
Autonomy	18-22 min
Camera Type	24-48 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection**

VIRTUALMIND

INTELLECTUAL PROPERTY PATENTED

MADE IN ITALY MADE IN

SPYX Y6

VIRTUALMIND

SN: VM-SPYX-Y6-2015

Dimension	90 cm
Weight	3-7 kg
Payload	1-4 kg
Autonomy	18-22 min
Camera Type	24-48 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints, Multispectral Camera
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection**

RAPACE X4

650 CLASS

SN: VM-RAPACE650-X4-2015

Dimension	65 cm
Weight	1.9 kg
Payload	0.5 kg
Autonomy	18-22 min
Camera Type	12-16 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection**

VIRTUALMIND

RAPACE X4

450 CLASS

SN: VM-RAPACE450-X4-2015

Dimension	45 cm
Weight	0.9 kg
Payload	0.5 kg
Autonomy	18-22 min
Camera Type	12-16 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection**

Patent VIRTUALMIND:

Rapace 250 first world's professional UAV under 300 gr

AEROMECCANICA

RAPACE 250 CLASS

FIRST WORLD'S PROFESSIONAL UAV UNDER 300GR

SN: VM-RAPACE250

Dimension	25 cm
Weight	298 gR
Autonomy	11-20 min
Camera Type	11-22 Mpx - Flir IR - Multispectral Camera - Omnidirectional 360
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 Wayponts

Stealth Technology

FLY360 Omnidirectional Technology

INTELLECTUAL PROPERTY PATENTED

MADE IN ITALY

WASP X4

AEROMECCANICA

VIRTUALMIND

SN: VM-WASP-X4-2015

Dimension	25 cm
Weight	0.49 kg
Payload	0.1 kg
Autonomy	18-20 min
Camera Type	12-16 Mpx -Flir IR
FPV	Yes
Ground Station	Yes
Operation Type	Specialized & Critical
Option	FPV - Ground Station up to 50 waipoints
Function	**SAR - Aerial Filming - IR Flir - Surveillance, Flare Inspection**