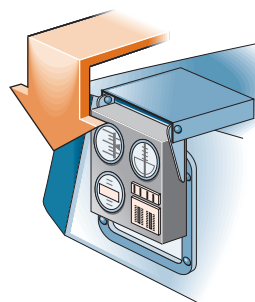


# MILITARY AVIATION

## The glass cockpit of the future

As combat warplanes fly faster, higher and carry out increasingly varied missions, pilots must combine fighting and flying skills – at lightning speed. Plane makers are now designing the next generation of fighter cockpits, intended to minimise pilot workload and improve efficiency



### Standby instruments:

Panel can be pulled out if electronic systems fail. Dials give the four principal readings – airspeed, height, attitude and heading

### Up-front control:

Communications, navigation and IFF (identification friend or foe)

### Heads-up display:

Holographic HUD projects everything the pilot needs to know to fly and fight on to a transparent glass screen positioned at eye level



### Attack system:

Forward looking infra-red (FLIR) can select and track one target while continuing to search for other targets

### Multi-function displays:

Air-to-air radar, mission data, digital maps

### HOTAS controls:

(hands on throttle and stick). Right hand controls stick, left hand controls throttles. Every switch or button needed during combat can be activated with finger and thumb movements

### Night vision helmet:

Helmet-mounted display supplies pilot with flight data and weapon aiming information wherever he is looking. Data is read easily in darkness

### Direct voice control:

Speech recognition system allows pilot to activate weapons and defensive counter measures by talking to them

