

**Broadcast Engineering Consultants India Limited**  
(A Government of India Enterprises–Under Ministry of Information and Broadcasting)  
A MINI RATNA COMPANY



The world of  
**INNOVATIVE**  
solutions from  
**concept to commissioning**

# Company Profile

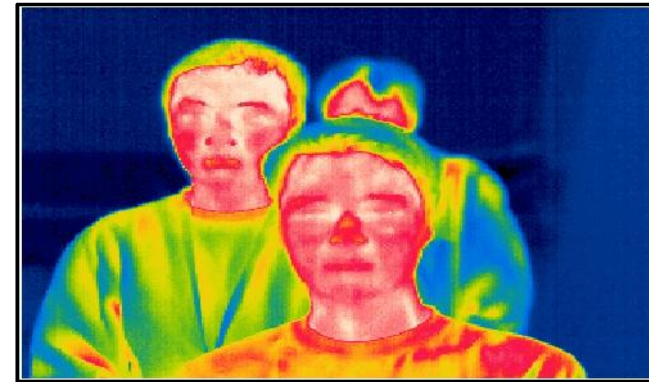


- ISO 9001:2015 certified, Mini Ratna Public Sector Enterprise of Government of India with Corporate Office in Noida
- Industry experts in providing project consultancy services and turnkey solutions of radio and television broadcast engineering
- Undertakes supply of specialized communication, monitoring, security and surveillance systems to defense, police department and various para-military forces
- BECIL has established its pan India presence to serve the needs of the industry
- The list of prestigious clients mainly encompasses
  - Ministry of Defence (MOD)
  - Ministry of Road Transport and Highways (MORTH)
  - National Technical Research Organisation (NTRO)
  - Indian Railways
  - Airport Authority of India (AAI)
  - Food Corporation of India (FCI)
  - Prasar Bharati, and many more Government of India autonomous bodies & Public Sector Undertakings (PSUs)
- BECIL has also empanelled various agencies/OEMs for different business verticals / opportunities to be associated with BECIL in the future opportunities in the respective areas

# Current Scenario – Need of Thermal Scanners



- In view of the current scenario of wide spread of COVID-19, it has become an urgent mandate to introduce and imbibe Thermal Scanners in the Industry to help examine and contain the spread of the pandemic disease.
- BECIL has currently partnered with M/s **TAK Technologies Pvt Ltd.**, who are OEMs of Hand Held Thermal Scanners and Online Temperature Measurement Solutions under the brand name of **DarVi** in India, to meet the current urgent requirements of Thermal Sensors.
- These devices are:
  - Passive, Non-Contact
  - Non-Invasive
  - Precise and Accurate temperature measurement from a distance up to 05 meters
  - Provide Radiometric Images
  - Capable of measuring skin temperature and imaging all parts of human body with precision and informative detail



# WHY THERMAL IMAGING CAMERAS?



**The Thermal Imaging Cameras offer following advantages over the conventional IR Pyrometers / IR Thermometers:**

Conventional IR Thermometers	Advanced Thermal Imaging Cameras
Capable of measuring temperature of just a spot	Provides temperature readings for each pixel of entire thermal image.
Because of D:S ratio dependency, the device has to be held very close to suspect thus it compromise the safety of user.	Because of advanced optics, thermal imaging cameras can resolve temperatures from a longer distance. This allows quick and safe inspection for the user.
Surrounding temperature effects the performance	No effect of surrounding temperature on performance of thermal scanner
Slow response time	Quick Response Time
No possibility of Report Generation / Log Creation	Provision of Log Creation / Report Generation



Conventional IR Thermometers



Advanced Thermal Imaging Cameras



## OUR OFFERINGS...



# HAND-HELD THERMAL IMAGING CAMERA

## DarVi TG-01



### FEATURES:

- IR Resolution of 160 X 120 pixels
- Sensitivity (NETD) - 0.06°C @ 30°C
- 3.5", Coloured, Touch-Screen, TFT LCD Display
- 11 colored Palletes
- Switchable Infrared & Visual Image, Image Overlay of Infrared and Visual Image
- Temperature Measurement Range of +20°C to +50°C
- Temperature Measurement Accuracy of  $\pm 0.3^{\circ}\text{C}$
- Full screen maximum temperature tracking, Hot Spot Tracking
- High temperature alarm (sound, color)
- Tripod mountable
- Power Saving Modes
- Operating Temperature Range of -10 °C to +50°C



# ONLINE FEVER SENSING CAMERA

## DarVi CAM-01



### FEATURES:

- Automatic detection of multiple targets in the scene (Automatic Face Detection)
- 8 Simultaneous High Temp. Alarms with feature of Automatic capture of alarm screen
- 1/8" CMOS, 2MP Progressive scan ultra low light visual camera
- Detector Resolution of 384 X 288 pixels
- Sensitivity (NETD) of 0.06°C @ 30°C
- WDR, High light compensation
- 11 colored Palletes
- Temperature Measurement Range of +20°C to +50°C
- Temperature Measurement Accuracy of  $\pm 0.3^{\circ}\text{C}$
- Auto Temperature Calibration
- Operating Temperature Range of -10°C to + 50°C
- IP 54 Encapsulation





THANK YOU...