ROMEO Fiumicino Airport
Leonardo da Vinci

Ready to Restart!

Protective measures to prevent COVID-19 spread

3rd July 2020
Preface

The resumption of air transport requires a clear framework of operational measures, applied uniformly at national, or even better at European/international, level, on the one hand to ensure an adequate mitigation of the health risks involved in the future phase of managing the epidemic, but on the other hand to restore the minimum economic viability conditions of air transport.

The close collaboration between the Institutions in charge and the various players in the air transport chain, which began in Italy during the initial phase of the emergency, has ensured the definition and timely adoption of operational processes that are fundamental to fighting against the spread of the epidemic. It is considered that a co-ordinated approach between Administrations and Industry should be preserved in all subsequent phases of post-crisis management.

In this scenario ADR is since the beginning strongly committed in :

- Providing safety and health protection for airline & airport staff
- Creating confidence for passengers in order to travel safe again
- Ensuring and complying with the most important requirements for health & behavior, such as shielding equipment and social distancing

The following is a description of the measures that have been implemented and that can be remodelled and integrated in view of further in-depth studies that are continuously underway.
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Infrared thermal imaging body temperature screening system has been installed at FCO since February 5th as countermeasure to prevent the virus spreading.

The high technology allows a real-time face temperature detection capturing up to 16 face temperatures simultaneously.

Parameters:
1. Temperature measurement accuracy $\leq 0.3^\circ C$
2. Temperature detection up to 16 face temperatures simultaneously
3. Motion detection, disk alarm, temperature alarm
4. Quick body temperature screening in $\leq 30$ milliseconds
5. Field of view $\leq 10$ meters
6. Sensitivity $\leq 40$ mK
7. Temperature measurement range $-20^\circ C \sim 60^\circ C$
Thermal scanner

**Body temperature screening measurement**

**Body temperature conversion algorithm**
A temperature conversion algorithm transforms face temperature into real body temperature

**Temperature algorithm correction**
The temperature algorithm correction removes all environment, distance etc. alterations allowing the camera to work in a reliable way

**Temperature measurement accuracy**
\[ \leq 0.3^\circ C \]
After the temperature correction the accuracy is \( \leq 0.3^\circ C \) (issuance, distance, environment temperature, etc.)

**Alarms interface**
2 alarms IN / 2 alarms OUT
Acoustic and bright signals can be activated when the alarm is ON

**Temperature alarm**
If a detected temperature is beyond the pre-set threshold, an alarm signal is immediately generated
The body temperature screening is performed under control of Ministry of Health by medical staff.
Both arriving & departing passengers are involved; thermal scanner available also at departure gates.
Thermal scanner

**Smart Helmet**: the portable thermal scanner.

The device allows airport staff to monitor and measure the body temperature of passengers from a distance by walking in the airport.
**Thermal scanner**

The temperature is measured for passengers, airport staff and operators using the termoscanners that have been installed in the dedicated entrances.

Dedicated doors for entry/exit from Terminal.
Contents

1. Thermal scanner

2. Sanification

3. Signage – Social distancing

4. Plexiglass protection

5. Waiting area

6. Railway – Bus Station

7. Curbside

8. Retail

9. New layout of the Terminal

10. EASA Pilot

11. Biosafety Trust Certification
Information pylons showing the list of health protective recommended measures are spread along the Terminal.

Hand sanitizer gel dispensers are available in all areas (public and non public zones).

More than 220 gel dispensers
Sanification

Dispenser

Electric hand sanitizer dispenser installed in the boarding area. It dispenses 2 ml of product with each use, guaranteeing 25,000 deliveries.
Sanification

The Terminal sanification is managed on daily basis along the external platforms and inside the Terminal.
Sanification

The treatment extends to continuous and accurate attention to the Terminal equipment such as baggage trolleys, security baskets and toilets.
Sanification

Hold baggage is sanitized before it is collected by the passenger:

- An automatic device for the distribution of a sanitizing mist emanated when the baggage passes inside a tunnel has been tested and implemented, others are under construction;
- Waiting for construction completion, hold baggage on other belts are sanitized by spraying a specific product before being collected by passengers, providing appropriate communication.
Sanification

Sanification of escalators and moving walkways.

The sanitization of the handrail of the escalators that connect the departure hall of Terminal 3 with the arrival hall, takes place through LED lamps that produce UV rays capable of instantly eradicating bacteria and viruses on the total contact area of the handrail.
Sanification

Vending machines have been installed near the entrances to the departure hall of Terminal 3, equipped with a "sanitizing kit" which includes masks and sanitizing products.

The same "sanitizing kit" is sold in vending machines near exit for ground transportation (trains, buses and taxis) for passengers arriving at FCO and bound for Rome.
Sanification

Lift

The sanification of the lift that connects the airside area of Terminal 3 is able to instantly eradicate bacteria and viruses.
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Signage – Passenger Information on-site

- Signage to inform and remind passengers of body temperature check, health and immigration rules, social distancing message
- PA announcement every 15’ during operational hours
- Staff briefed to monitor compliance with social distancing
We have made a video whose goal will be to provide information, reassure passengers and at the same time ask everyone to contribute to the respect of the rules to protect their own health and that of others.
Signage – Social distancing

• Social distancing message on Ledwall and FIDS (*Flight Information Display Screen*) at check-in, boarding area, Arrivals and Departures Hall.
Social distancing: Entry/Exit dedicated doors

Terminal 3 - Departures

Terminal 3 - Arrivals
Social distancing: Security controls

Floor stickers applied for social distancing message at the security controls queueing area.
Social distancing: Security controls

Short term: floor signage implementation and plexi dividers positioning to maintain social distancing.
Social distancing: Immigration / Emigration

• Floor tape at Passport queuing area applied to remind passengers for social distancing
Social distancing: check-in counter

Walkable totems and stickers, use of check-in monitors to signal waiting positions and the need to keep the distance.
Social distancing: Smoking cabin
Social distancing: toilet
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Protection screens

Plexiglas protection screens at check-in, ticketing, information desks to enhance the social distancing.
Protection screens

Plexiglas protection screens at border controls to guarantee protection between both passengers and operators.
1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Seating area

Seating area reduced with blocked seats to maintain the social minimum distance (leaving empty seats in between).
Baggage Reclaim Hall

Walkable and use of the ledwall
to indicate the positions to be maintained on the ground

Attend qui il tuo bagaglio
Wait here for your baggage

½ social distance (50 cm)
1 person (60 cm)
social distance 100 cm
1 person (60 cm)
social distance 100 cm
1 person (60 cm)
½ social distance (50 cm)
½ social distance (50 cm)
1 person (60 cm)

160 cm
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Railway Station and Central Bus Station - mechanized connections

Stickers and totems at the beginning and end of the tapis roulant to remember the need to keep the distance
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
Curbside

Totems and panels
Placed outside the terminals

*LA TUA SALUTE È LA NOSTRA PRIORITÀ!*
*YOUR SAFETY IS OUR PRIORITY!*

**È obbligatorio indossare la mascherina.**
**It is mandatory to wear face mask.**
According to the Authorities, masks should be replaced after being worn for 4 hours, reduced observation open time for the mask, no mask, or theirs, they can not be given. Paramedics should remove that they have a sufficient number of masks for the entire duration of their journey.

**Si raccomanda di mantenere il distanziamento sociale.**
**It is recommended that you maintain social distancing.**
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
People counting and signage to remember social distancing

LA TUA SALUTE È LA NOSTRA PRIORITÀ!
YOUR SAFETY IS OUR PRIORITY!

Nei vari locali è effettuata periodicamente la disinfezione.
Retailers disinfect their premises regularly.

L’impianto di aerazione è soggetto a sanificazione.
The ventilation system is sanitised.

L’accesso ai diversi locali commerciali e ristoranti è limitato ad un numero massimo di persone.
Access to various commercial premises and restaurants is limited to a maximum number of people.

L’ingresso è regolamentato dal singolo punto vendita.
Enter is regulated by the individual retailer.

Ricordati di:

Mantenere il distanziamento sociale.
Maintain social distancing.

Igienizzare le mani prima e dopo il pagamento.
Sanitise your hands before and after payment.
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail

9. New layout of the Terminal

10. EASA Pilot
11. Biosafety Trust Certification
Configuration from 1st July 2020

Domestic/Schengen
Extra Schengen
Not in use
New layout of the Terminal | Emigration and Connecting

- n. 8 cabins **Departure** (l. 2,2 m)
- n. 4 cabins **Connecting Pax** (l. 2,5 m)
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal

10. EASA Pilot

11. Biosafety Trust Certification
On April 15th 2020, the European Commission presented a common European roadmap setting out recommendations on COVID-19 containment measures. As requested in the roadmap, on 13th May 2020 the Commission presented indications on how to progressively restore transport services, connectivity and free movement with the speed allowed by the health situation, while protecting the health of workers and passengers. The Commission has mandated the European Union Aviation Safety Agency (EASA) and the European Center for Disease Prevention and Control (ECDC) to jointly publish more detailed technical operational guidelines for the aviation sector.

EASA and ECDC developed these guidelines, the purpose of which is to serve as a basic protocol for aviation health safety and to provide a source of good practice on how airport operators, airlines, and national aviation authorities can ensure the health and safety of passengers, as well as of operators in the sector, reducing the risk of transmission of the virus.

Air carriers and airport operators have been invited to participate in a program for compliance with these rules which, among others, provides for a weekly data collection aimed at constituting a feedback cycle on the execution of the implemented measures established in the protocol. This collection will facilitate further refinements and revisions of the protocol to improve the effectiveness and efficiency of the guidelines, in view of the expected increase in traffic volumes and potential new new waves of COVID-19.

Aeroporti di Roma has been one of the first airport operator to join this program.
Contents

1. Thermal scanner
2. Sanification
3. Signage – Social distancing
4. Plexiglass protection
5. Waiting area
6. Railway – Bus Station
7. Curbside
8. Retail
9. New layout of the Terminal
10. EASA Pilot
11. Biosafety Trust Certification
CERTIFIED BIOSAFETY TRUST MANAGEMENT SYSTEM

The new approach and the contingency measures evolved in standard procedures. We decided together with RINA to apply at the airport the concept of Biosafety Trust Certification. The first certification framework for management systems designed to prevent and mitigate the spread of infections in order to protect people from the threat of biological agents.

It is based on ISO norms (ISO 45001, ISO 14001, ISO 31000, ISO 19011), with a focus on the analysis of behaviours from the Organizational Behaviour Management (OBM) and on Risk Management. Monitoring of third parties and training courses on the respect of hygiene norms is part of the management system. The requirements of this new tool can be integrated in other current certifications, in particular in the Occupational Health and Safety certification ISO 45001.

Aeroporti di Roma is the First Airport Operator in the World to be Biosafety Trust Certified.