BERMOS Systems

KESTRON

PRODUCT DATA SHEET

As of November 2026

Mission software for drone teams of emergency services and authorities

KESTRON brings mission planning, pilots, drones, weather, live video, flight logs and documentation together in a single software interface – built for professional UAV teams.

PLATFORMS

Android tablets, Windows, macOS and Linux. Without a connection the app keeps working and transfers changes as soon as the network is back; live video and syncing between devices need internet.

OPERATION

Server at IONOS SE in a data centre in France (EU). Updates arrive automatically, with a verified signature and never during a running mission.

Features

- Missions and exercises with crew, roles and height approval, optionally several at the same time. Further devices join a running mission, even without a drone. If the starting device fails, an app administrator takes over the mission on another device.
- Map with mission location, route (can also be drawn during a mission), findings with coordinates, no-fly zones from dipul and, on request, reported air traffic with helicopter warning
- Flight data from DJI Pilot 2 over the local network: altitude, speed, heading, battery with remaining flight time, GPS; findings are synchronised with DJI Pilot 2 in both directions
- Pre-flight and post-flight checks with pilot PIN, mission mode with night view
- Weather and rain radar from the German Weather Service (DWD), checked against the drone's limits; the organisation's own weather and aeronautical chart subscriptions and map layers can be added
- Phone book for the mission
- Enter the access details for live video (RTSP/RTMP) and DJI flight data once – they apply to all devices of the organisation
- German and English, including the mission report
- Live video from the remote controller, on all joined devices via the server (needs internet; without a connection only the device at the pilot shows the image), there with the shared photos. Videos recorded on a laptop while “Share live video” is running reach the other devices as a reduced copy; there they play directly in the app, with their own strip and tile for still images. Joined devices can also mark up photos. Optionally also in the command staff's browser, with the mission's photos to view and mark up (selectable data rate, recordable as video on a laptop).
- Final report as a PDF (short or full) with a situation sketch on a map background and the origin of every image, encrypted on the server and in the flight log on all devices.
- Pilots with certificates (including STS-01/02 and BOS under EGRED 2) and email reminders six and three months before expiry
- Situation display on a second screen, with an interactive map
- Flight log with search
- Mark up photos and still images with pen, highlighter, arrow, circle, rectangle and text in 8 colours and 3 line widths, also in the command staff's browser. Markings already show in the media overview, plus full screen and “On situation display”.

Mission documentation

- ✓ Mission documentation: log with messages, tasks and later entries, resources with totals and a situation map with tactical symbols following the SKK recommendations – also on mission photos, with the map laid into steep top-down drone photos on request; printable at any time and included in the mission report
- ✓ Operational sections with leader and radio channel, command and radio organisation charts, your organisation's own vehicles, symbol bar with groups and call signs on labels; filtered printouts marked as EXTRACT
- ✓ Send log entries at the push of a button to an incident management system or to your organisation's own address; later changes follow automatically
- ✓ Flight log in line with EGRED 2, fleet & maintenance with labels, STS-BOS quick check (decision aid) – included in the main licence, plus the KESTRON Fleet web page for equipment managers.

Security and data protection

- ✓ Encrypted on the device with AES-256, key in the system's secure store; final reports and videos also encrypted on the server
- ✓ BERMOS can access mission data only with a PIN from the customer, for one mission and for at most 24 hours. Any intervention by BERMOS in app accounts is reported to the customer by email. Shared photos and videos are deleted from the server after 14 days.
- ✓ New devices only with an activation code or approval by your own organisation; lost or retired devices can be locked remotely
- ✓ Authenticity check of Android devices, screen protection and warning of possible remote access
- ✓ Transfer over HTTPS only
- ✓ Passwords and PINs stored with Argon2id
- ✓ Lockout after failed attempts
- ✓ Organisations strictly separated
- ✓ Audit log
- ✓ Daily backup
- ✓ Security notices from BERMOS are emailed to the portal admins and confirmed in the customer portal

System requirements

	VERSION	DOWNLOAD
Android	8.0 or later	approx. 4 MB
Windows	10 and 11, 64-bit	approx. 157 MB
macOS	11 or later	approx. 92 MB
Linux	64-bit, e.g. Ubuntu 22.04/24.04, Debian 12	approx. 113 MB

Live video

Any remote controller that can send an RTMP or RTSP live stream – such as the DJI RC Pro Enterprise with DJI Pilot 2. Remote controllers with an HDMI output via a USB capture card; on Android tablets only if the tablet supports USB cameras. Not possible: remote controllers without live streaming and without HDMI, e.g. the DJI RC with the DJI Mini 3. You set the data rate of the sharing to command staff yourself (3, 1 or 0.5 Mbit/s), and on a laptop the live video can be recorded as a video file. Joined devices receive the live video via the server, without recording. Changes made on other devices appear in the sync interval, usually within about 30 seconds.

CONTACT

BERMOS Systems · Email: info@bermos-systems.de · Phone & WhatsApp: +49 1515 0258217 · www.bermos-systems.de