JAKCOM R4

JAKCOM R4 Smart Ring Instruction Manual

Model: R4
Brand: JAKCOM

INTRODUCTION

The JAKCOM R4 Smart Ring is an intelligent wearable device designed to integrate various digital functions into a convenient ring form factor. It features multiple RFID card simulation capabilities, NFC functions for social sharing and smart device control, and a 128GB wireless storage disk. Crafted from micro-crystal Zr ceramics, the ring offers durability and a sleek design, operating without the need for charging by utilizing the radio energy of read-write equipment.

PRODUCT FEATURES

- **Premium Material:** The entire body of the R4 is constructed from micro-crystal Zr ceramics, providing a unique rounded luster and high durability.
- **Multi-Card Simulation:** Capable of simulating 1 IC card (13.56MHz CUID Chip), 1 ID card (125KHz T5577 Chip), and 2 NFC cards (Ntag216 Chip) simultaneously. This includes access control cards, turnstile cards, elevator cards, parking cards, time cards, supermarket cards, gas cards, and medical cards.
- **Social Information Sharing:** Quickly share social account information to other phones, supporting most mainstream social platforms.
- **Personal Function Activation:** Rapidly initiate various personal functions such as Location Message, Virtual Call, MI Home Smart Devices scenes, and Apple Shortcuts scripts.
- **128GB Wireless Storage:** Features an exclusive 128GB wireless storage space for quick file sharing with other phones.
- **Battery-Free Operation:** Powered by the radio energy of read-write equipment, eliminating the need for charging and ensuring continuous operation.

PACKAGE CONTENTS

- JAKCOM R4 Smart Ring

- User Manual

SPECIFICATIONS

Feature	Detail
Carrier Frequency	13.56MHz, 125KHz
RF Distance	1 – 3 cm
IC Module Type	UID
ID Module Type	T5577
NFC Module Type	Ntag216
Ring Material	Micro-crystal Zr Ceramics
Protection Grade	IP68
Operating Temperature Range	-50°C – +80°C
Memory Storage Capacity	128 GB (Wireless Disk)
Operating System Compatibility	iPhone and Android
Connectivity Technology	NFC

SETUP AND INSTALLATION

1. Product Overview

The JAKCOM R4 Smart Ring is designed for seamless integration into your daily digital life. Below is an image of the product.

Figure 1: JAKCOM R4 Smart Ring

2. Ring Sizing

Ensure you select the correct ring size for optimal comfort and functionality. Refer to the size specification chart below.

Size Specification

Inelastic Thread

Tighten the Thread Slightly

Straighten the Line

MEASUREMENT CHART

Ring model contrast table (unit:mm)

Size	8	9	10	11	12
Perimeter	57.1	60	62.8	66	70

Figure 2: Ring Size Specification Chart. This chart provides measurements (perimeter in mm) for various ring sizes (8, 9, 10, 11, 12) to help determine the correct fit.

3. Initial Setup for NFC/RFID Functions

The R4 Smart Ring supports multiple frequency bands and standards for various card types. It can simulate IC cards, ID cards, and NFC cards.

Figure 3: JAKCOM R4 Smart Ring demonstrating multi-frequency band and multi-standard compatibility with IC and ID cards.

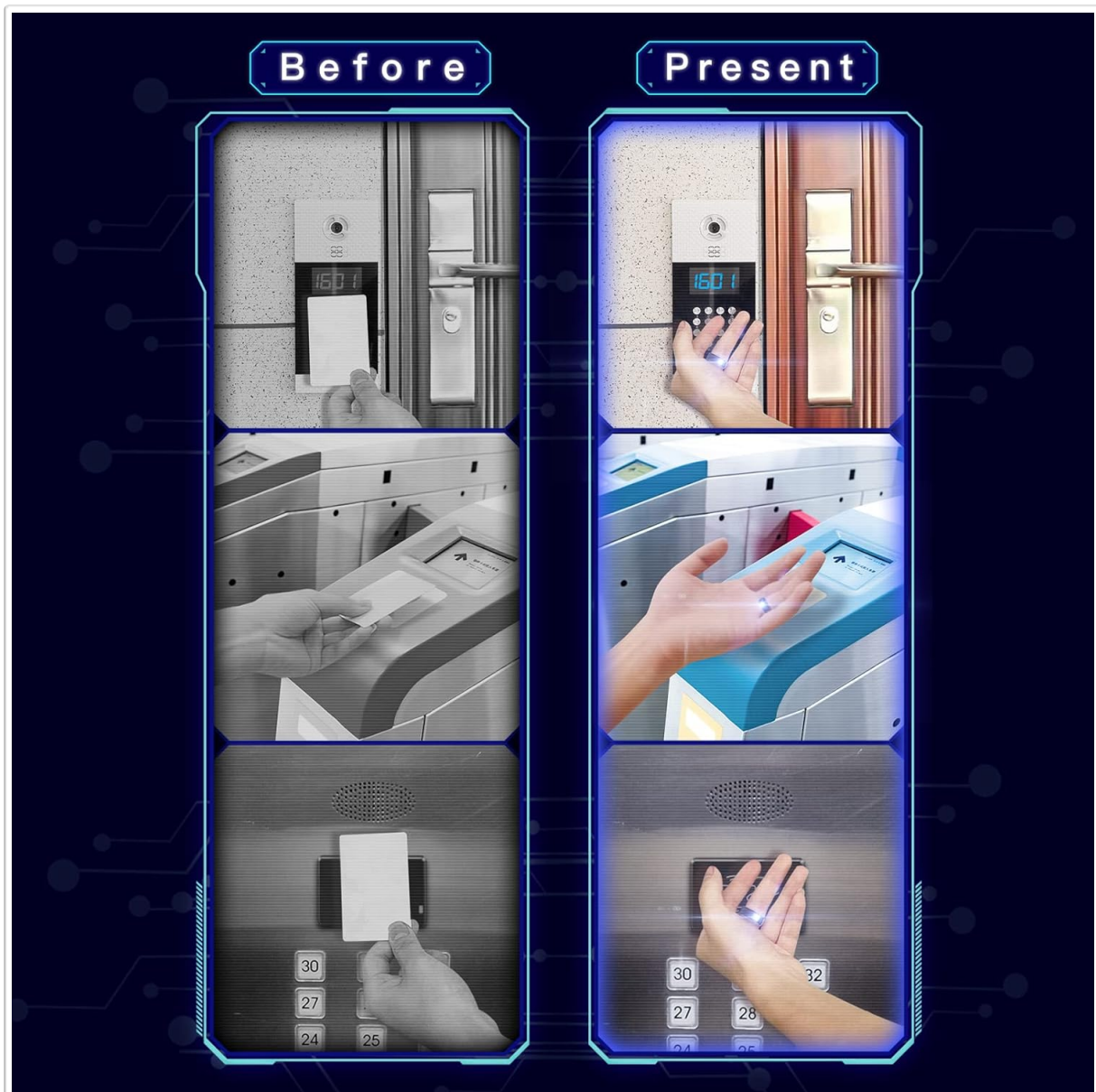The ring can replace traditional access cards for doors, elevators, and other systems.

Figure 4: Visual comparison showing the convenience of using the JAKCOM R4 Smart Ring for door access, replacing a traditional card.
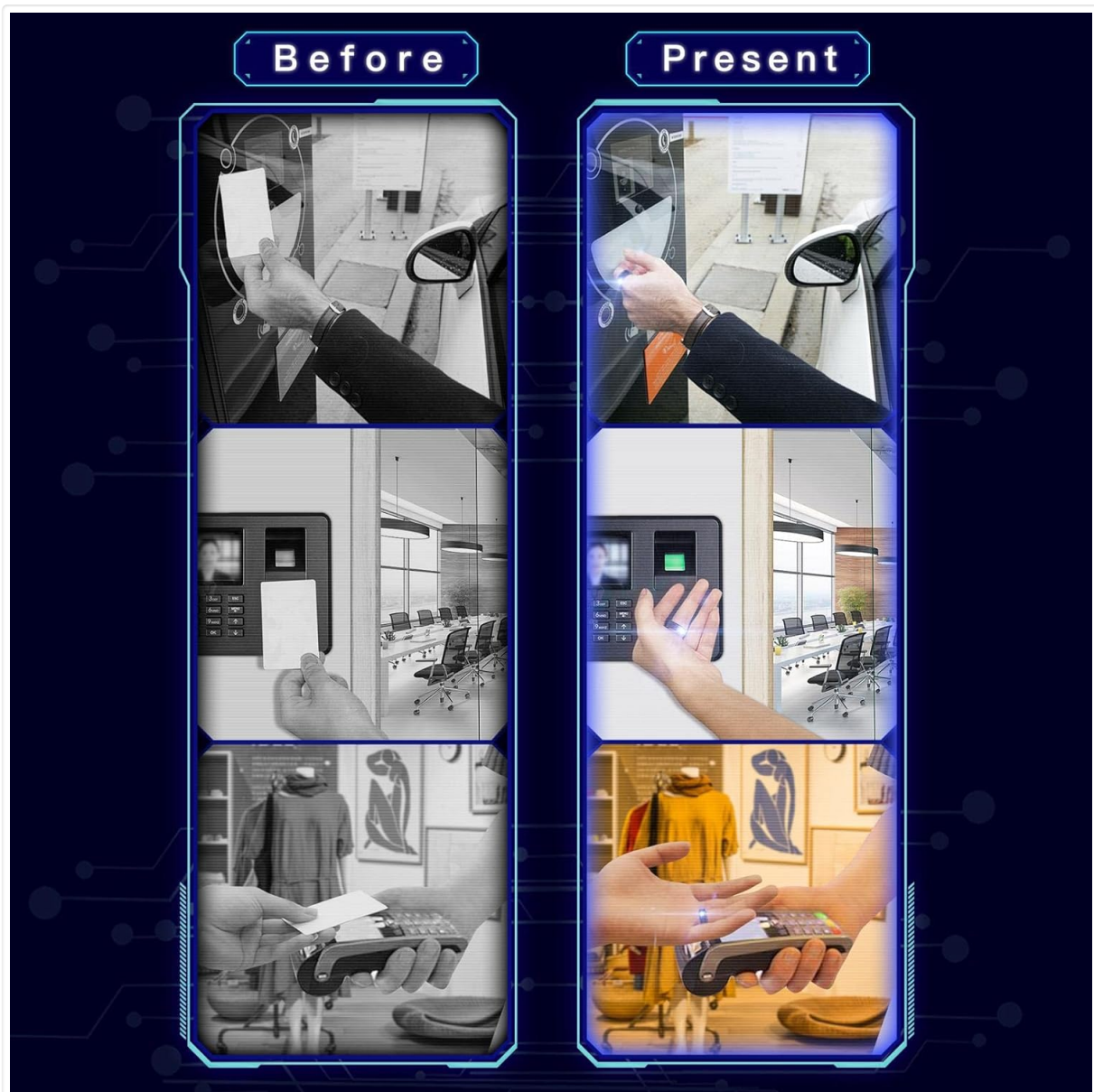
Figure 5: Illustrates the use of the JAKCOM R4 Smart Ring for various access points, including doors, turnstiles, and elevators, compared to traditional cards.

NFC Functions Setup

To utilize NFC functions like sharing business cards, sending messages, links, or locations, and connecting to Wi-Fi, follow the instructions in the video below. Ensure your phone's NFC function is enabled.

Your browser does not support the video tag.

Video 1: This video demonstrates the basic NFC functions of a smart ring, including sharing business cards, sending messages, links, and locations, and connecting to Wi-Fi.

RFID Functions Setup

To copy an existing 125KHz RFID card to your smart ring and use it for access, refer to the following video. A 125KHz copier is required for this process.

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Video 2: This video illustrates how to copy an existing 125KHz RFID card to the smart ring using a copier and then use the ring to open a lock.

OPERATING INSTRUCTIONS

1. 128GB Wireless Disk Sharing

The R4 Smart Ring includes a 128GB wireless storage disk for convenient file sharing. This feature allows you to quickly transfer various file types to other compatible devices.

Figure 6: The JAKCOM R4 Smart Ring's 128GB wireless disk feature, illustrating its capability to store and share various file types such as documents, images, and media.

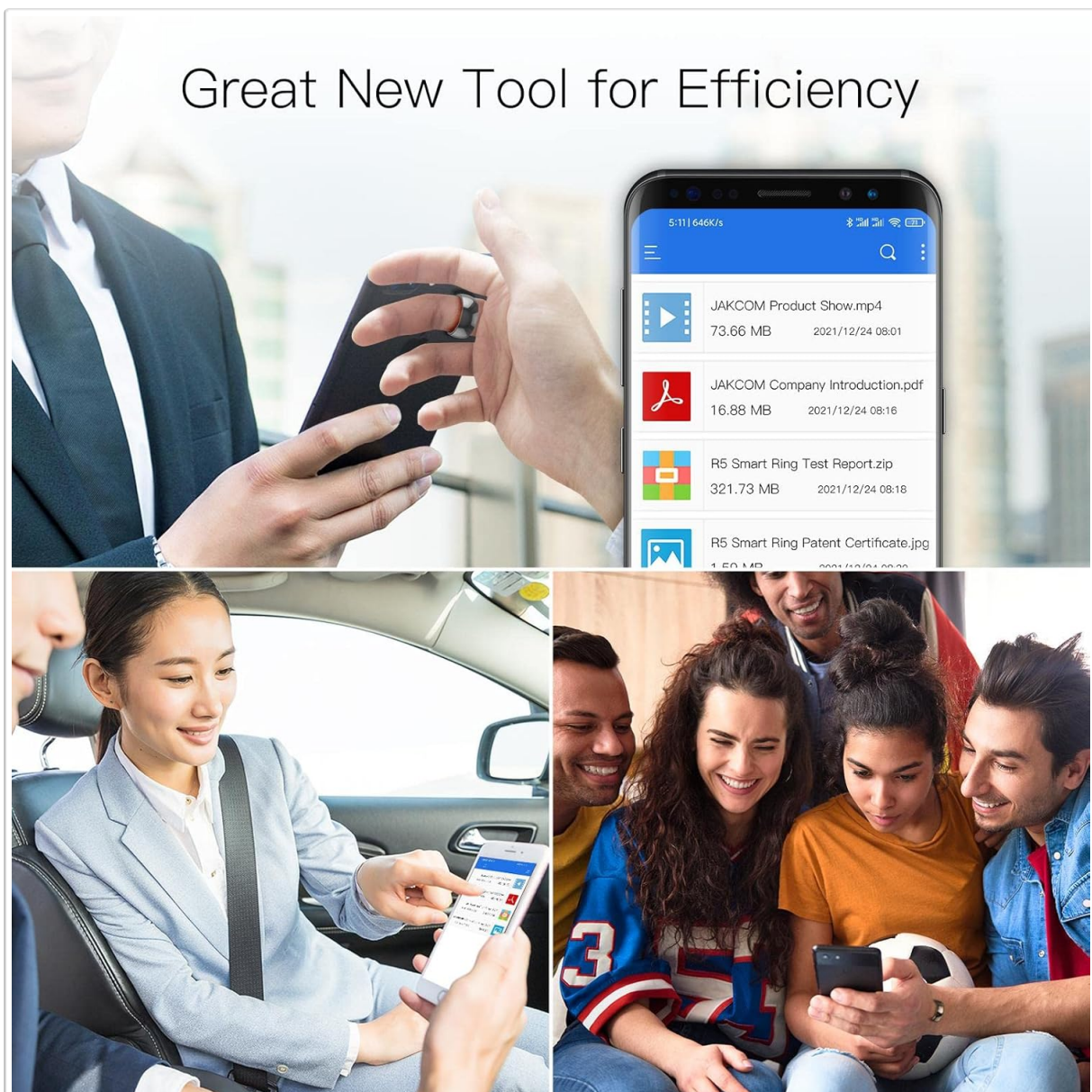This feature enhances efficiency in professional and social settings.

Figure 7: Individuals utilizing the JAKCOM R4 Smart Ring to efficiently share data and information with smartphones in various scenarios.

2. NFC Functions for Social Sharing and Smart Control

The R4 Smart Ring facilitates quick sharing of contact information, links, and other data, making interactions more streamlined.
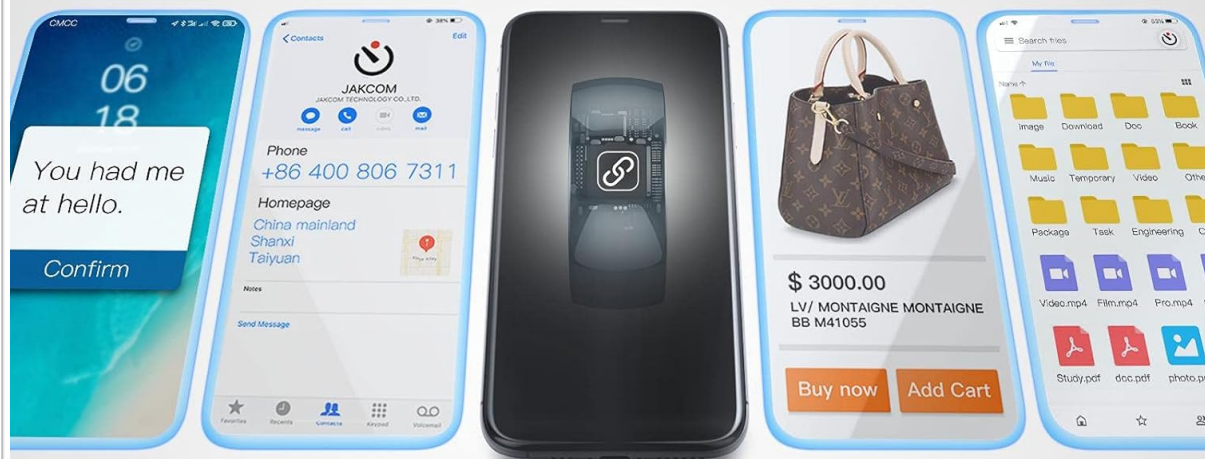
Figure 8: The JAKCOM R4 Smart Ring's information sharing capabilities, including contact details, shopping links, and various files, displayed on a smartphone.

It also allows for quick activation of personal functions and smart device controls.
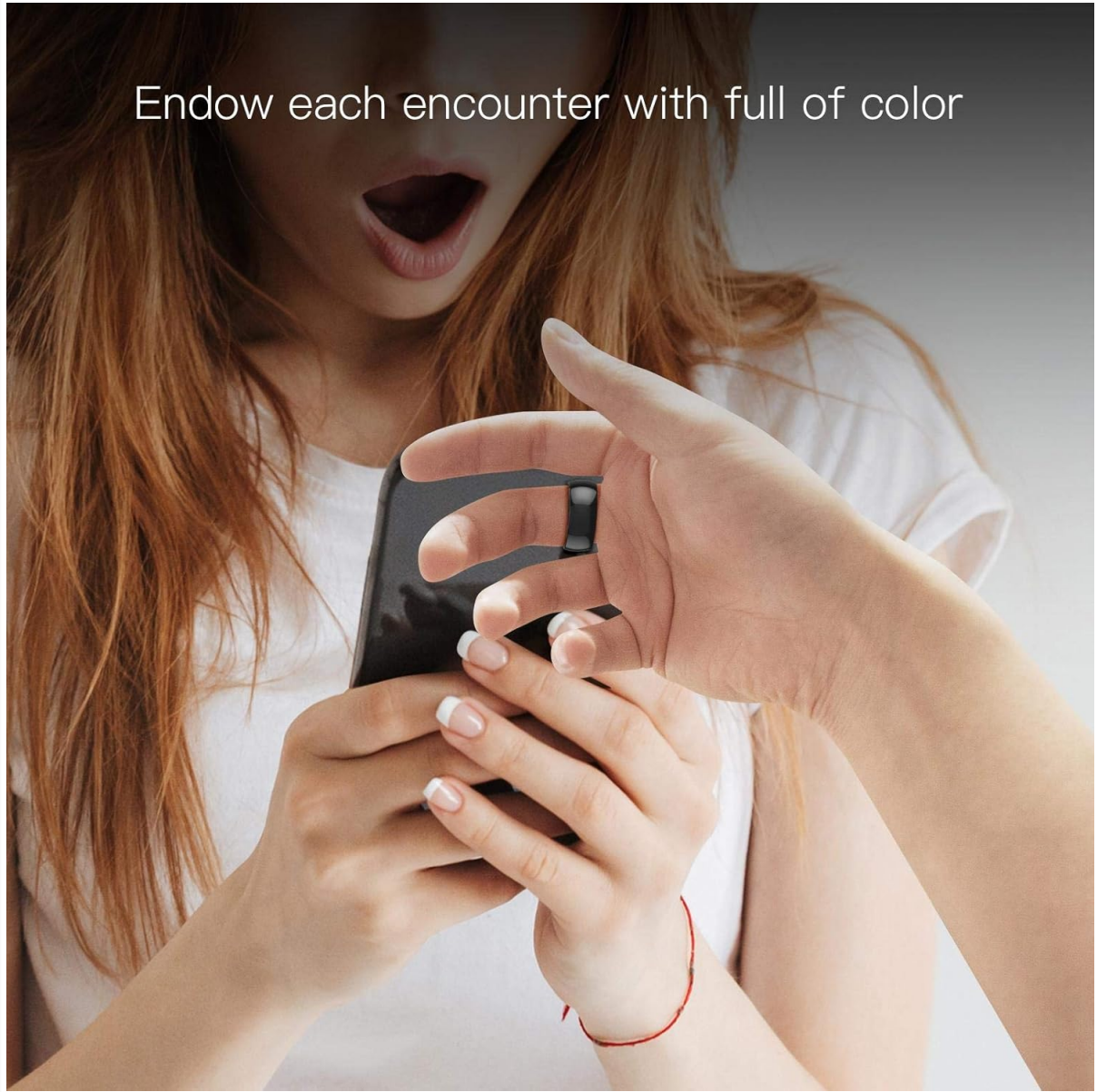
Figure 9: A person interacting with a smartphone using the JAKCOM R4 Smart Ring, highlighting its ease of use for various functions.

For a general overview of the R4 Smart Ring's features and applications, watch the video below.

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Video 3: An overview video showcasing the various features and applications of the JAKCOM R4 Smart Ring, including NFC, RFID, and data sharing.

MAINTENANCE AND CARE

- **Cleaning:** Wipe the ring with a soft, dry cloth to remove any dirt or smudges. Avoid harsh chemicals or abrasive materials.

- **Durability:** The micro-crystal Zr ceramic material is highly durable. However, avoid extreme impacts that could potentially damage the ring.

- **Water Resistance:** The ring has an IP68 protection grade, meaning it is resistant to dust and can withstand immersion in water up to 1.5 meters for 30 minutes. It is suitable for daily use, including hand washing and showering, but prolonged submersion or use in high-pressure water is not recommended.

- **No Charging Required:** The ring operates on radio energy from read-write equipment, so no

charging is ever needed.

TROUBLESHOOTING

- **NFC Functionality with Smartphones:** Most Android phones support NFC ring functions if their NFC feature is enabled. However, many iPhones may not support all NFC ring functions even if NFC is enabled, due to Apple's specific NFC implementation.

- **Programming Limitations:** The ring can be programmed with different functions, but only one program can be active at a time. Writing a new program will automatically overwrite any previously stored program.

- **125KHz T5577 Ring (ID Card):** The T5577 125KHz chip in the ring is initially blank. It must be copied from an existing 125KHz card using a compatible copier. It cannot be directly authorized for use without prior copying.

- **Programmed 125KHz Ring:** Once a 125KHz ring has been programmed (copied from an existing card), it can only be authorized to work with compatible systems. It cannot be used to copy other cards.

- **UID 13.56MHz Ring (IC Card):** The UID 13.56MHz chip in the ring offers more flexibility. It can be used to copy existing IC cards or can be directly authorized to work with compatible systems.

- **Reading Distance:** Ensure the ring is within 1-3 cm of the reader for successful interaction.

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the manufacturer's official website or contact your retailer. Keep your proof of purchase for any warranty claims.